

## -- IHC Antibody 的領導者

Spring Bioscience於2001年成立於Pleasanton, California, USA · 專精於組織病理學及IHC的研究 · 他擁有了很多rabbit monoclonal antibodies · 也是第一個將 rabbit monoclonal antibodies引進IHC 的市場 · 而Spring' s SP clones 的技術 · 主要運用在製做“專一性的 IHC rabbit monoclonal antibodies” · 也得到了“黃金標準的聲譽” 成為Rabbit monoclonal antibody的領導者” · Spring的第一個 rabbit monoclonal clone 為 anti-ER SP1 · 目前為最大



大的癌症跡象判定指標 · 也使anti-ER SP1clone佔有世界領先的地位 · 在2006年的Journal of Clinical Oncology中所發表的Immunohistochemical Detection Using the New Rabbit Monoclonal Antibody SP1 of Estrogen Receptor in Breast Cancer Is Superior to Mouse Monoclonal Antibody 1D5 in Predicting Survival · 提到在偵測乳癌的ER ( Estrogen receptor ) 表現中有很多Anti-ER antibody被使用在臨床的研究上 · 其中這兩個mouse monoclonals-6F11 and 1D5在臨床的研究上其敏感度是相似的 · 而 rabbit monoclonal · SP1確比1D5 ( mouse monoclonal ) 有高8倍的親和性 · 研究更進一步發現在偵測乳癌內ER的表現中 · SP1也比1D5有更高的敏感度 · 因此奠定了anti-ER SP1在偵測乳癌內ER表現的判定指標 ; 而Spring也發行了80個附加的rabbit monoclonal clone · 希望針對於現在或未來 · 在腫瘤判定上都可成為高價值的相關指標。

SP = Spring Bioscience Corporation · 你可能不熟悉Spring Bioscience Corporation · 但或許你相當熟悉了解 rabbit monoclonal “SP” clones · 所有的SP antibody clone都是由Spring Bioscience所設計進而製造生產的。

**SP clone= high affinity rabbit monoclonal antibody=高親和性、高敏感度、高專一性**

### Spring的服務宗旨--

以提供專業且完整的IHC product lines · 來提升客戶研究和診斷的能力! 並和客戶成為策略合作的夥伴 · 進而自我提升。

2003年Spring通過ISO 認證 (ISO 13485:2003)

### Spring 抗體的特色--

1. Clean and intense staining
2. 獨具特色的SP Clone具高敏感度.高專一性
3. 對於難處理或挑惕的 tissue仍具有穩定的表現
3. 提高再現性

## Spring四大產品線：

### 1. Primary antibodies - 0.1ml, 1ml 和7ml (ready to use)

- Rabbit Monoclonal (SP clones)
- Mouse Monoclonal (SPM clones)
- Rabbit Polyclonal

### 2. Reveal Detection Systems (biotin free detection )包含下列偵測系統：

- Reveal, HRP, DAB System
- Reveal, HRP, ACE System
- Reveal, AP, Red system

### 3. Antibody Microarrays提供高通量篩選(high-throughput screen)使用·可分為：

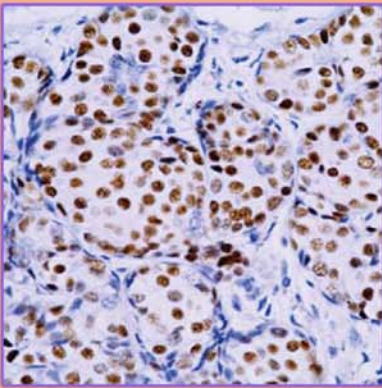
- |                                   |   |
|-----------------------------------|---|
| Angiogenesis Microarray (127 Abs) | Signal Transduction Microarray Slides (165 Abs) |
| Hormone Microarray (30 Abs)       | Master Antibody Microarray Slides (656 Abs)     |
| Apoptosis Microarray (71 Abs)     | Stem Cell Microarray Slides (58 Abs)            |
| Cancer Marker Microarray (86 Abs) | Cell Cycle Microarray (60 Abs)                  |
| Hematopoiesis Microarray (50 Abs) | Cytokine Microarray (77 Abs)                    |

### 4. Ancillary Reagents組織切片免疫染色試劑及組織學研究相關工具·包括：

- Recombinant protein
- Pretreatment solutions
- Diluents
- Chromogens
- Mounting media and buffers



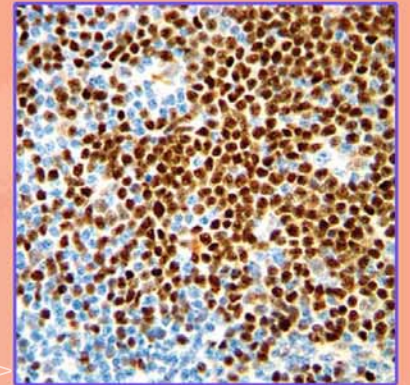
## SPRING PRODUCT



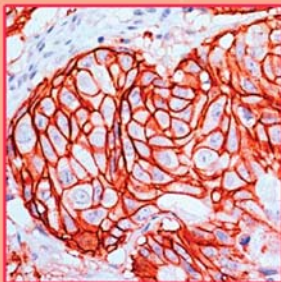
#### SP1 : ESTROGEN RECEPTOR (ER)

This antibody strongly stains the **nucleus** of epithelial cells in breast carcinomas. The ER is an important regulator of growth and differentiation in the mammary gland. Dilute the antibody 1:200

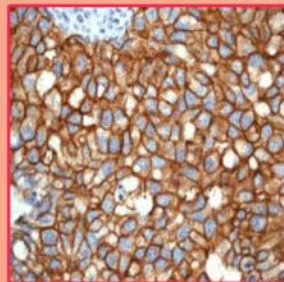
SP4 : CYCLIN D1 is one of the key cell cycle regulators, and functions in association with cdk4 and / or cdk6 by phosphorylating the Rb protein. It is a putative proto-oncogene over expressed in a wide variety of human neoplasms including mantle cell lymphomas (MCL). Dilute the antibody 1:100



## SPRING V.S. COMPETITOR

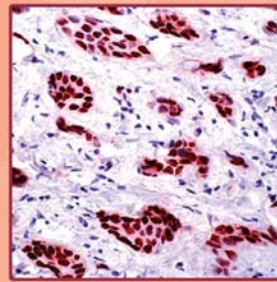


1:100 (Spring cat#M3030)

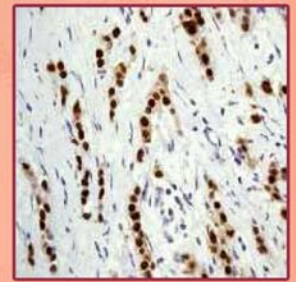


1:100 (E牌)

**c-erbB-2** is a receptor tyrosine kinase of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. c-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas. (Cellular localization: cell membrane)



1:400 (Spring cat#M3020)



1:100-250 (E牌)

**PROGESTERONE RECEPTOR (PR)** is an estrogen-regulated protein. It has been proposed that expression of PgR determination indicates a responsive estrogen receptor (ER) pathway. A number of studies have shown that PgR determination provides supplementary information to ER. (Cellular localization: nucleus)



NOTE: 紅色字體Host為Mouse

黑色字體Host為Rabbit

## TOP 100 PRODUCTS

編號	Product Name	0.1ML CAT# (IHC Dilution)	1ML CAT# (IHC Dilution)	7ML CAT# (IHC Dilution)	Application	Species Reactivity
1	Estrogen Receptor (ER)	M3010 1:200	M3014 1:200	M3011 RTU	IHC-P	Hu, Hm
2	Cyclin D1	M3040 1:100	M3044 1:100	M3041 RTU	IHC-P	Hu, Ms, Rt
3	CD5	M3190 1:50	M3194 1:50	M3191 RTU	IHC-P	Hu
4	Ki-67	M3060 1:200	M3064 1:200	M3061 RTU	IHC-P	Hu, Rt, Ms
5	c-erbB-2/HER-2	M3030 1:100	M3034 1:100	M3031 RTU	IHC-P	Hu
6	Progesterone Receptor (PR)	M3020 1:400	M3024 1:400	M3021 RTU	IHC-P	Hu
7	CD3	M3070 1:150	M3074 1:150	M3071 RTU	IHC-P	Hu, Bb, Mk, Hs, Dg, Ct
8	CD23	M3230 1:100	M3234 1:100	M3231 RTU	IHC-P	Hu
9	CD4	M3350 1:50	M3354 1:50	M3351 RTU	IHC-P	Hu
10	Synaptophysin	M3110 1:200	M3114 1:200	M3111 RTU	IHC-P	Hu
11	CD8	M3160 1:100	M3164 1:100	M3161 RTU	IHC-P	Hu
12	PAX-5	M3340 1:50	M3344 1:50	M3341 RTU	IHC-P	Hu
13	Calretinin	M3130 1:100	M3134 1:100	M3131 RTU	IHC-P	Hu, Ms, Rt
14	p53	E16570 1:400	E16574 1:400	E16571 RTU	IHC-P	Hu
14	p53	M3050 1:100	M3054 1:100	M3051 RTU	IHC-P	Hu
15	Vascular Endothelial Growth Factor (VEGF)	E2610 1:100	E2614 1:100	E2611 RTU	IHC-P	Hu
16	ALK/p80	M3080 1:100	M3084 1:100	M3081 RTU	IHC-P	Hu
17	CD79a	M3180 1:200	M3184 1:200	M3181 RTU	IHC-P	Hu, Mk, Hs, Cw, Pg, Rb, Gp, Ck, Rt
18	Chromogranin A	M3120 1:200	M3124 1:200	M3121 RTU	IHC-P	Hu
19	H. Pylori	E18380 1:100	E18384 1:100	E18381 RTU	IHC-P	H.Pylori infected tissue
20	CD117/c-kit	M3260 1:50	M3264 1:100	M3261 RTU	IHC-P	Hu
21	DOG-1	M3310 1:100	M3314 1:100	M3311 RTU	IHC-P	Hu
22	ERK-2	E3970 1:200	E3974 1:200	E3971 RTU	IHC-P	Hu, Ms, Rt
23	Vimentin	M3200 1:200	M3204 1:200	M3201 RTU	IHC-P	Hu
24	C4d	M3910 1:100	M3914 1:100	M3911 RTU	IHC-P	Hu
25	GLUT-1	E13810 1:200	E13814 1:200	E13811 RTU	IHC-P	Hu
26	CD31	M3380 1:50	M3384 1:50	M3381 RTU	IHC-P	Hu, Ms
27	Cadherin-E/E-Cadherin	E8640 1:100	E8644 1:100	E8641 RTU	IHC-P	Hu
27	Cadherin-E/E-Cadherin	M3640 1:100	M3644 1:100	M3641 RTU	IHC-P	Hu
28	PLAP	M3150 1:100	M3154 1:100	M3151 RTU	IHC-P	Hu, Ms, Rt

# Spring Bioscience Antibody Technology

編號	Product Name	0.1ML CAT# (IHC Dilution)	1ML CAT# (IHC Dilution)	7ML CAT# (IHC Dilution)	Application	Species Reactivity
29	Calcitonin	M3170 1:100	M3174 1:100	M3171 RTU	IHC-P	Hu, Ms, Rt, Mk, Dg, Hs, Sh, Pg
30	CD20	M3320 1:100	M3324 1:100	M3321 RTU	IHC-P	Hu
31	COX-2	M3210 1:100	M3214 1:100	M3211 RTU	IHC-P	Hu, Ms, Rt
32	Catenin-beta	E2260 1:250	E2264 1:250	E2261 RTU	IHC-P	Hu, Ms
33	S100	E2140 1:100	E2144 1:100	E2141 RTU	IHC-P	Hu
34	Toxoplasma Gondii	E4520 1:50	E4524 1:50	E4521 RTU	IHC-P	Hu
35	Actin-Smooth Muscle	E14340 1:200	E14344 1:200	E14341 RTU	IHC-P	Hu, Bb, Cw, Rb, Ms, Rt
36	c-Met	M3440 1:50	M3444 1:50	M3441 RTU	IHC-P	Hu
37	Claudin-1	E3410 1:200	E3414 1:200	E3411 RTU	IHC-P	Hu, Mk, Ms, Dg, Rt
38	PDGFR alpha	E2690 1:50	E2694 1:50	E2691 RTU	IHC-P	Hu, Rt
39	Desmin	E2570 1:200	E2574 1:200	E2571 RTU	IHC-P	Hu, Ms, Rt
40	Epidermal Growth Factor Receptor (EGFR)	E6690 1:25	E6694 1:25	E6691 RTU	IHC-P	Hu
40	Epidermal Growth Factor Receptor (EGFR)	M3090 1:100	M3094 1:100	M3091 RTU	IHC-P	Hu
41	Granzyme B	E2580 1:100	E2584 1:100	E2581 RTU	IHC-P	Hu, Ms, Rt
42	MDM2	E3500 1:50	E3504 1:50	E3501 RTU	IHC-P	Hu, Ms, Rt
43	Actin-Beta	E4550 1:100	E4554 1:100	E4551 RTU	IHC-P, WB	Hu, Ms, Rt, Bo, Sh, Pg, Rb, Ct
44	Phospho-Ser/Thr/Tyr	E3070 -	E3074 -	- -	WB, IP, IF, KA	All species
45	Wilm's Tumor (WT)	E3990 1:100	E3994 1:100	E3991 RTU	IHC-P	Hu, Ms, Rt
46	Nitric Oxide Synthase-Inducible (iNOS)	E3740 1:100	E3744 1:100	E3741 RTU	IHC-P	Hu, Ms, Rt
47	Alpha Fetoprotein (AFP)	E2950 1:200	E2954 1:200	E2951 RTU	IHC-P	Hu
48	Tubulin-beta	E3810 1:200	E3814 1:200	E3811 RTU	IHC-P	Hu, Cw, Pg, Rt, Ms, Gp, Gerbil,Ck
49	Mucin 5AC	E11070 1:100	E11074 1:100	E11071 RTU	IHC-P	Hu, Ms, Rt
50	OCT-2	E4300 1:50	E4304 1:50	E4301 RTU	IHC-P, WB, IP	Hu, Ms, Rt
51	Neuron Specific Enolase (NSE)	E3300 1:300	E3304 1:300	E3301 RTU	IHC-P	Hu
52	p120 (catenin delta 1)	M3630 1:100	M3634 1:100	M3631 RTU	IHC-P	Hu
53	Tubulin-alpha	E4130 1:200	E4134 1:200	E4131 RTU	IHC-P	Hu, Cw, Pg, Rt, Ms, Gp, Gerbil,Ck
54	CD138	E4560 1:50	E4564 1:50	E4561 RTU	IHC-P	Hu
55	p27Kip1	E2600 1:100	E2604 1:100	E2601 RTU	IHC-P	Hu, Ms, Rt
56	MMP-9 (92kDa Collagenase IV)	E3660 1:100	E3664 1:100	E3661 RTU	IHC-P	Hu, Gp
57	Keratin 19	E2630 1:100	E2634 1:100	E2631 RTU	IHC-P	Hu
58	Glial Fibrillary Acidic Protein (GFAP)	E16510 1:100	E16514 1:100	E16511 RTU	IHC-P	Hu, Pg, Rt, Ck
58	Glial Fibrillary Acidic Protein (GFAP)	M3780 1:100	M3784 1:100	M3781 RTU	IHC-P	Hu
59	Keratin 5	M3270 1:50	M3274 1:100	M3271 RTU	IHC-P	Hu
60	FLI-1	E4280 1:50	E4284 1:50	E4281 RTU	IHC-P	Hu, Ms, Rt
61	MUC-1/EMA/Epithelial Membrane Antigen	E11190 1:100	E11194 1:100	E11191 RTU	IHC-P	Hu
62	Osteopontin	E3280 1:50	E3284 1:50	E3281 RTU	IHC-P	Hu

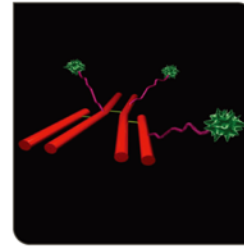
# Spring Bioscience Antibody Technology

編號	Product Name	0.1ML CAT# (IHC Dilution)	1ML CAT# (IHC Dilution)	7ML CAT# (IHC Dilution)	Application	Species Reactivity
63	Keratin 20	M3330 1:100	M3334 1:100	M3331 RTU	IHC-P	Hu
64	Survivin	M3790 1:100	M3794 1:100	M3791 RTU	IHC-P	Hu
65	Androgen Receptor	E2720 1:200	E2724 1:200	E2721 RTU	IHC-P	Hu, Ms, Rt
66	Nitric Oxide Synthase-Endothelial (eNOS)	E4110 1:70	E4114 1:70	E4111 RTU	IHC-P	Hu, Ms, Rt, Dg, Pg, Cw
67	Keratin 14	M3530 1:100	M3534 1:100	M3531 RTU	IHC-P	Hu
68	Claudin-4	E3980 1:200	E3984 1:200	E3981 RTU	IHC-P	Hu, Ms
69	Synuclein-alpha	E2680 1:100	E2684 1:100	E2681 RTU	IHC-P	Hu, Rt
70	CD105/Endoglin/TGF 1/3 Receptor	E4230 1:50	E4234 1:50	E4231 RTU	IHC-P	Hu
71	Myoglobin	E2990 1:200	E2994 1:200	E2991 RTU	IHC-P	Hu
72	CBP/p300-Interacting Transactivator 1 (CITED-1)	E3510 1:50	E3514 1:50	E3511 RTU	IHC-P	Hu
73	Adenomatous Polyposis Coli (APC)	E4080 1:100	E4084 1:100	E4081 RTU	IHC-P	Hu, Ms, Rt
74	<b>CEA/CD66e</b>	E16500 1:200	E16504 1:200	E16501 RTU	IHC-P	Hu
75	<b>CD34 (Endothelial Cell Marker)</b>	E1280 1:200	E1284 1:200	E1281 RTU	IHC-P	Hu
76	<b>TTF-1</b>	E17080 1:75	E17084 1:75	E17081 RTU	IHC-P	Hu, Ms, Rt
77	<b>CD15</b>	E1200 1:50	E1204 1:50	E1201 RTU	IHC-P	Hu
78	Caspase-8	E2280 1:100	E2284 1:100	E2281 RTU	IHC-P	Hu
79	Claudin-3	E3830 1:100	E3834 1:100	E3831 RTU	IHC-P	Hu, Ms, Rt
80	Placental Lactogen (hPL)	E2980 1:250	E2984 1:250	E2981 RTU	IHC-P	Hu
81	<b>CD56</b>	E1370 1:40	E1374 1:40	E1371 RTU	IHC-P	Hu
82	FLK-1/KDR/VEGFR-2	E3710 1:50	E3714 1:50	E3711 RTU	IHC-P	Hu, Ms, Rt
83	c-erbB-3/HER-3	M3710 1:100	M3714 1:100	M3711 RTU	IHC-P	Hu
84	FIt-1/VEGFR1	E2800 1:100	E2804 1:100	E2801 RTU	IHC-P	Hu, Ms, Rt
85	Cadherin-pan	E2360 1:100	E2364 1:100	E2361 RTU	IHC-P	Hu, Ms, Rt, Ck, Dg, Mk, Cw, Xe
86	MMP-2 (72kDa Collagenase IV)	E18010 1:100	E18014 1:100	E18011 RTU	IHC-P	Hu
87	Keratin 7	M3520 1:100	M3524 1:100	M3521 RTU	IHC-P	Hu
88	CD2	E3040 1:50	E3044 1:50	E3041 RTU	IHC-P	Hu
89	Luteinizing Hormone (LH)	E17480 1:500	E17484 1:500	E17481 RTU	IHC-P	Hu
90	FLT-4/VEGFR3	E3870 1:100	E3874 1:100	E3871 RTU	IHC-P	Hu, Ms, Rt
91	PCNA	E2850 1:200	E2854 1:200	E2851 RTU	IHC-P	Hu
92	<b>Adrenocorticotrophic Hormone (ACTH)</b>	E16450 1:400	E16454 1:400	E16451 RTU	IHC-P	Hu
93	NFkB p65	E2750 1:100	E2754 1:100	E2751 RTU	IHC-P	Hu, Rt, Rb
94	Amyloid Precursor Protein (APP)	E2650 1:100	E2654 1:100	E2651 RTU	IHC-P	Hu, Ms, Rt
95	Fas Ligand	E2710 1:100	E2714 1:100	E2711 RTU	IHC-P	Hu, Ms, Rt
96	Connexin-43	E2740 1:50	E2744 1:50	E2741 RTU	IHC-P	Hu, Ms, Rt
97	Estrogen Receptor beta (ER beta)	E14020 1:50	E14024 1:50	E14021 RTU	IHC-P	Hu
98	MMP-1	E3570 1:200	E3574 1:200	E3571 RTU	IHC-P	Hu

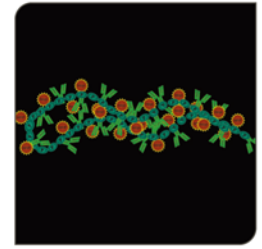
## DETECTION SYSTEMS - Biotin-Free Detection Systems - REVEAL

### REVEAL™ Biotin-Free System vs. Conventional Polymer Systems

REVEAL Biotin-Free Detection System	Polymer-based Detection Systems
Eliminates the polymer backbone and allows the enzyme to be conjugated directly to the secondary antibody by long-arm linkers	Enzyme and secondary antibody are conjugated to a polymer backbone (such as Dextran)
The compact size of the molecule enables diffusion through tissue promoting access to targeted binding sites	Polymers have a tendency to bind to themselves creating a large molecule that may limit functionality and sensitivity



Spring's Detection Technology



Polymer Detection Technology

The long-arm-linkers keep the enzyme far enough away from the antibody so that its ability to bind to the target is not impacted. The lack of a backbone creates a small molecule.

SPRING 針對IHC的實驗，提供了一個新的偵測系統 **Biotin-Free Detection Systems - REVEAL**；傳統的 Polymer detection system，Enzyme 與二級抗體會結合在 Polymer backbone，而 polymers 會與自己鍵結而創造出很大的分子，進而影響了它的功能性與敏感度，而 Spring 所研發的 **REVEAL, Biotin-Free Detection system** 則排除了 polymer backbone，藉由 long-arm linkers 將 enzyme 直接結合到二級抗體上，所形成的分子小，相對提高了對抗體的敏感度，增進 signal to noise ratio，並可縮短 incubation times，此偵測系統可運用在 mouse and rabbit primary antibody。

### Biotin-Free Detection Systems

提供簡單的偵測系統，可降低對 Avidin/biotin 的背景值，增進 signal-to noise ratio，並提高對抗體的敏感度。

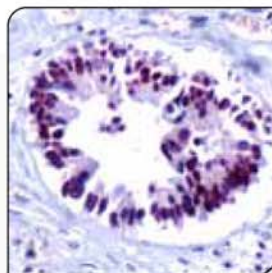
### Biotin-Streptavidin Detection System

此 kit 運用在 biotinylated anti-mouse and/or anti-rabbit IgG conjugate with AP or HRP conjugated streptavidin。針對 AP，antibody detection 需選擇 chromogen-substrate mixture，liquid fast red。針對 HRP，antibody detection 需選擇 chromogen-substrate mixture，DAB or AEC。

#### p53 (SP5) Cat# M3054, Colon Adenocarcinoma

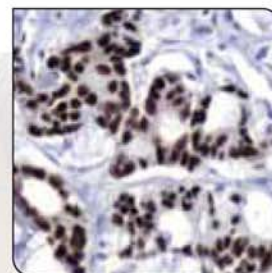


REVEAL AP Conjugate

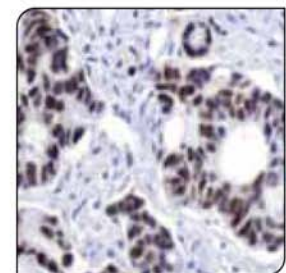


Leading Competitor's AP Conjugate

#### p53 (SP5) Cat #M3054, Colon Carcinoma



REVEAL HRP Conjugate



Leading Competitor's HRP Polymer

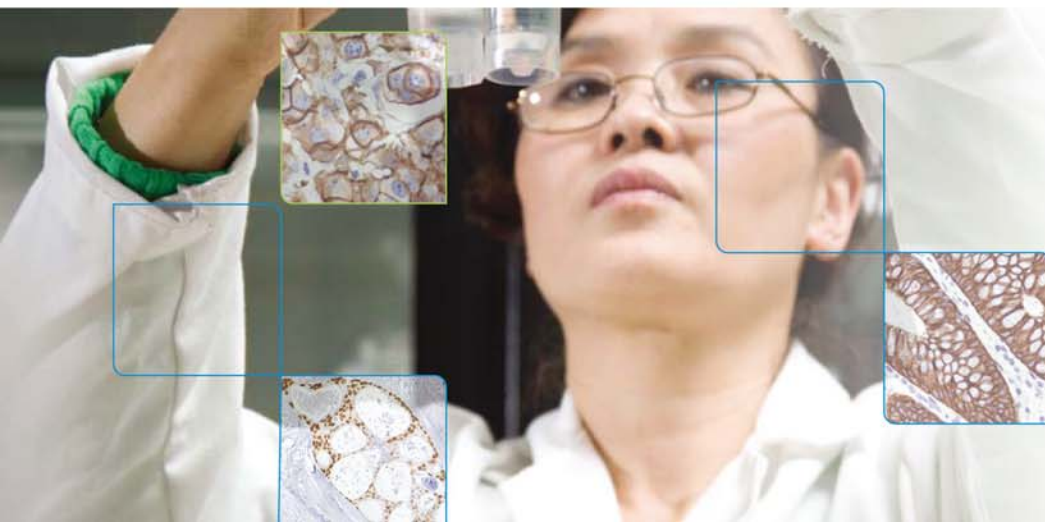
# Spring Bioscience Detection Technology

## Spring REVEAL Biotin-Free Detection Systems

Product	15ml	60ml	125ml	Components
Reveal - Biotin-Free Polyvalent AEC	SPA-015	SPA-060	SPA-125	HRP Conjugate , Complement, AEC Single Solution , Protein Block , H2O2 Block.
Reveal - Biotin-Free Polyvalent DAB	SPD-015	SPD-060	SPD-125	HRP Conjugate, Complement, DAB Substrate , DAB Chromogen , Protein Block , H2O2 Block .
Reveal - Biotin-Free Polyvalent AP (Red)	PAR-015	PAR-060	PAR-125	Protein Block , Enhancer , AP Conjugate, Naphthol Phosphate , Fast Red Chromogen
Reveal - Rabbit Specific AEC	SRA-015	SRA-060	SRA-125	Goat Anti Rb HRP , AEC Single Solution , Protein Block , H2O2 Block
Reveal - Rabbit Specific DAB	SRD-015	SRD-060	SRD-125	Goat Anti Rb HRP , DAB Substrate , DAB Chromogen , Protein Block , H2O2 Block.
Reveal - Mouse Specific AP (Red)	MAR-015	MAR-060	MAR-125	Protein Block, Enhancer , AP Conjugate GMI , Naphthol Phosphate, Fast Red Chromogen
Reveal - Rabbit Specific AP (Red)	RAR-015	RAR-060	RAR-125	Protein Block , Enhancer, AP Conjugate GRI , Naphthol Phosphate

## Biotin-Streptavidin Detection Systems

Product	編號	Size	Components
Anti-mouse HRP AEC Detection System	TMA-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Biotinylated goat anti-Mouse IgG(H+L) (15ml), Streptavidin Peroxidase (15ml), AEC Single Solution (15ml).
Anti-mouse HRP DAB Detection System	TMD-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Biotinylated goat anti-Mouse IgG(H+L) (15ml), Streptavidin Peroxidase (15ml), DAB Chromogen (50x) (0.5ml), DAB substrate (15ml).
Anti-rabbit HRP AEC Detection System	TRA-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Biotinylated goat anti-rabbit IgG(H+L) (15ml), Streptavidin Peroxidase (15ml), AEC Single Solution (15ml).
Anti-rabbit HRP DAB Detection System	TRD-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Biotinylated goat anti-rabbit IgG(H+L) (15ml), Streptavidin Peroxidase (15ml), DAB Chromogen (50x) (0.5ml), DAB substrate (15ml).
Polyvalent HRP AEC Detection System	TPA-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Anti-Polyvalent (15ml), Streptavidin Peroxidase (15ml), AEC Single Solution (15ml).
Polyvalent HRP DAB Detection System	TPD-015	15ml	Hydrogen Peroxide Block (15ml), Protein Block (15ml), Anti-Polyvalent (15ml), Streptavidin Peroxidase (15ml), DAB Chromogen (50x) (0.5ml), DAB substrate (15ml).
Polyvalent HRP Plus Kit	UVX-060	60ml	Protein Block (60ml), Anti-Polyvalent Plus (60ml), Streptavidin Peroxidase Plus (60ml).
	UVX-125	125ml	Protein Block (125ml), Anti-Polyvalent Plus (125ml), Streptavidin Peroxidase Plus (125ml).
Polyvalent HRP Kit	HRP-060	60ml	Protein Block (60ml), Anti-Polyvalent (60ml), Streptavidin Peroxidase (60ml).
	HRP-125	125ml	Protein Block (125ml), Anti-Polyvalent (125ml), Streptavidin Peroxidase (125ml).
Polyvalent ALK Phospho Kit	UVP-060	60ml	Protein Block (60ml), Anti-Polyvalent (60ml), Streptavidin Alkaline Phosphatase (60ml).
	UVP-125	125ml	Protein Block (125ml), Anti-Polyvalent (125ml), Streptavidin Alkaline Phosphatase (125ml).



## Antibody Microarray

Spring研發了不同pathway的antibody microarray，提供研究者方便偵測與分析比較正常、疾病或處理過的樣品、蛋白質的表現。



### Microarray Products

Catalog Number	Product Name	Size
AMD-001	Antibody Microarray Detection Kit	1 kit
AMS-700	Master Antibody Microarray Slides (656 Abs)	2 slides
AAG-100	Angiogenesis Microarray Slides (127 Abs)	2 slides
AAP-100	Apoptosis Microarray Slides (71 Abs)	2 slides
ACC-100	Cell Cycle Microarray Slides (60 Abs)	2 slides
ACK-100	Cytokine Microarray Slides (77 Abs)	2 slides
ACM-100	Cancer Marker Microarray Slides (86 Abs)	2 slides
AHM-100	Hormone Microarray Slides (30 Abs)	2 slides
AHP-100	Hematopoiesis Microarray Slides (50 Abs)	2 slides
ASC-100	Stem Cell Microarray Slides (58 Abs)	2 slides
AST-100	Signal Transduction Microarray Slides (165 Abs)	2 slides



## Ancillary Reagents 組織切片免疫染色試劑及組織學研究相關工具

### Detection System Components

Catalog Number	Product Name	Size	Format
BGM-001	Biotinylated Goat anti-Mouse IgG (H+L) (minxHu)	1mg	Concentrate
BGR-001	Biotinylated Goat anti-Rabbit IgG (H+L) (minxHu)	1mg	Concentrate
DGP-125	Biotinylated Goat Polyvalent IgG's	125ml	Ready-to-use
DGM-125	Biotinylated Goat Anti-Mouse IgG's	125ml	Ready-to-use
DGR-125	Biotinylated Goat Anti-Rabbit IgG's	125ml	Ready-to-use
DSA-125	Streptavidin Alkaline Phosphatase	125ml	Ready-to-use
DSP-125	Streptavidin Horseradish Peroxidase	125ml	Ready-to-use

### Chromogens

Catalog Number	Product Name	Size	Format
ASS-060	AEC Single Solution	60ml	Ready-to-use
ASS-125	AEC Single Solution	125ml	Ready-to-use
DAB-060	DAB (2 components, 50X)	60ml	Ready-to-use
DAB-125	DAB (2 components, 50X)	125ml	Ready-to-use
DAB-999	DAB (2 components, 50X)	1000ml	Ready-to-use
DABD-999	DAB (2 components, 25X)	1000ml	Ready-to-use
DFN-125	Fast Red (2 components)	125ml	Ready-to-use
LFR-125	Liquid Fast Red Substrate System (75X)	125ml	Ready-to-use
LFR-999	Liquid Fast Red Substrate System (75X)	1000ml	Ready-to-use
LFRD-999	Liquid Fast Red Substrate System (25X)	1000ml	Ready-to-use