

Immunohistochemistry (IHC)

優質產品與服務



訊號放大
試劑



多重染色
試劑



IHC常備
試劑



IHC實驗
代工服務

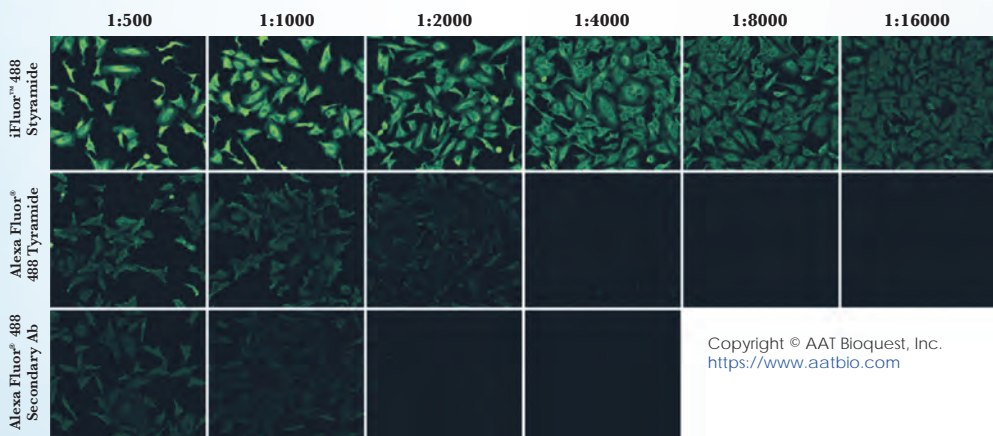
訊號放大試劑

Power Styramide™ Signal Amplification (PSA™)

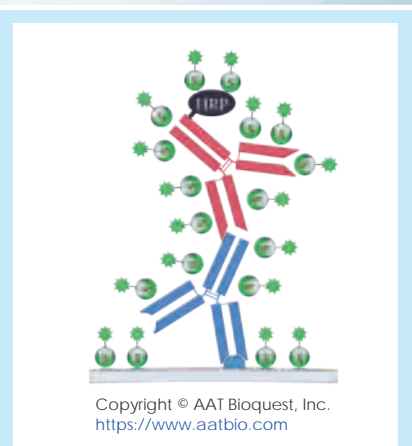
PSA™ 訊號放大試劑適用於放大 IHC、ICC、ISH 等實驗訊號，使用時僅需在原本的實驗流程中，添加兩個步驟：(1) 加入 HRP 酵素、(2) 加入 PSA™ 訊號放大試劑，即可在短短的十分鐘內感受到明顯的訊號放大效果。

- 放大訊號達 100 倍以上
- 有效節省抗體或探針用量
- 螢光種類多元，可在同一樣本上進行多重目標偵測

Sensitivity of Power Styramide™ Signal Amplification (PSA™) Kits



HeLa cells were fixed, permeabilized and labeled with various concentrations of rabbit anti-tubulin primary antibody. Cells were then stained with reagents in iFluor™ 488 PSA™, an Alexa Fluor® 488-labeled tyramide or an Alexa Fluor® 488-labeled goat anti-rabbit IgG.



PSA™ 作用原理：PSA™ 訊號放大原理主要是透過二級抗體上所帶有的 HRP 酵素活化 PSA™ 產品核心試劑 "Styramide"，使其大量且迅速地鍵結於待測標的 (DNA、RNA、or Protein) 上。藉由在 Styramide 上標定螢光 (如 iFluor™ 488 綠色螢光) 或半抗原 (如 Biotin)，即可使得目標分子上表現有大量的螢光 (fluorescent) 或呈色 (chromogenic) 訊號，進而達到訊號放大效果。

螢光系統

產品	Ex (nm)	Em (nm)
iFluor™ 350 Styramide	345	442
iFluor™ 488 Styramide	491	514
iFluor™ 546 Styramide	541	557
iFluor™ 555 Styramide	552	567
iFluor™ 568 Styramide	568	587
iFluor™ 594 Styramide	592	619
iFluor™ 647 Styramide	649	665
iFluor™ 680 Styramide	676	695
iFluor™ 700 Styramide	685	710
iFluor™ 750 Styramide	749	775
iFluor™ 790 Styramide	782	811

可見光系統

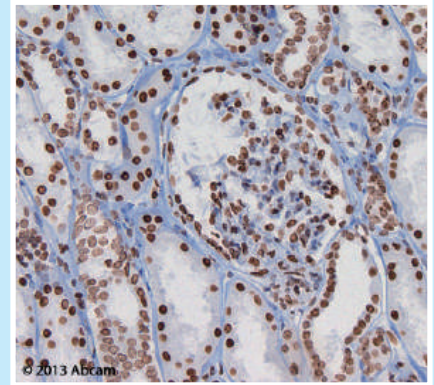
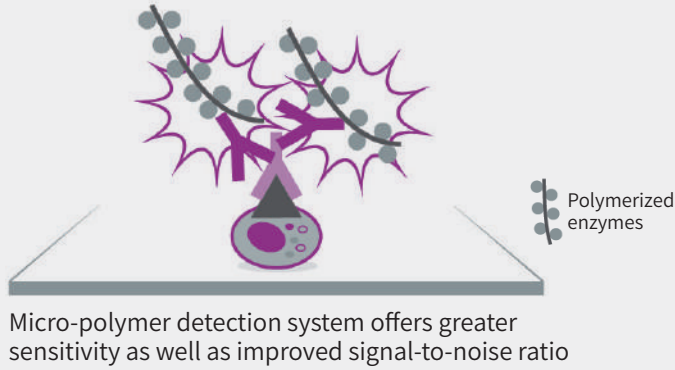
產品	酵素呈色
Biotin Styramide	Streptavidin-HRP or AP
DIG Styramide	Anti-DIG HRP or AP
DNP Styramide	Anti-DNP HRP or AP



訊號放大試劑

Micropolymer IHC detection kit

- 提升靈敏度：試劑盒中的二級抗體，採用 micropolymer 專利鍵結技術，使抗體上帶有多個反應酵素，小分子的 micropolymer 更能穿透組織，提高偵測靈敏度。
- 低背景值：使用 biotin-free 方式進行放大，避免樣本中內生性 biotin 所造成的干擾。

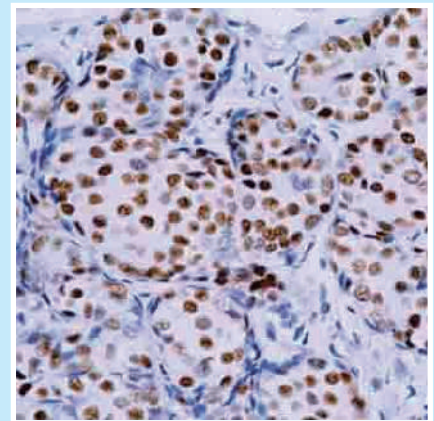
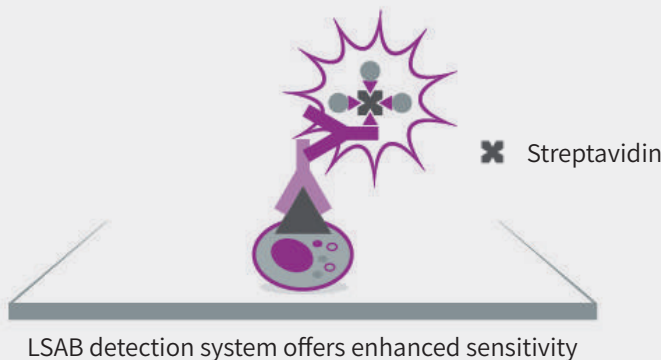


Anti-Histone H3 (di methyl K9) antibody staining human kidney sections by IHC-P using Mouse and Rabbit Specific HRP/DAB IHC Detection Kit- Micro-polymer

產品	適用一級抗體物種來源
Mouse and Rabbit Specific HRP/DAB IHC Detection Kit - Micro-polymer	Mouse & Rabbit
Mouse and Rabbit Specific HRP/AEC IHC Detection Kit - Micro-polymer	Mouse & Rabbit
Rabbit specific HRP/AEC IHC Detection Kit - Micro-polymer	Rabbit
Rabbit specific HRP/DAB IHC Detection Kit - Micro-polymer	Rabbit

Labeled Streptavidin-Biotin (LSAB) ABC kit

- 提升靈敏度：透過生物素（biotin）標定的二級抗體，採用 streptavidin 鍵結多個反應酵素以放大訊號並較傳統 ABC 分子小，更能穿透組織。
- 減少非專一性結合：streptavidin 沒有醣基化修飾，較傳統 ABC 方法的 avidin 分子所帶電荷更加中性，可減少非特異性結合。



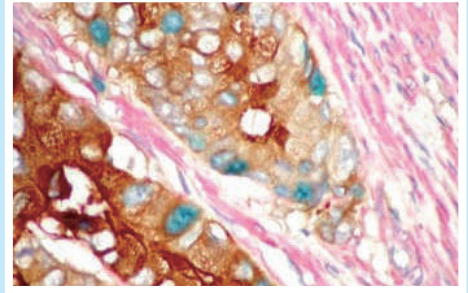
Anti-Estrogen Receptor alpha antibody [SP1] staining human estrogen receptor in breast carcinoma tissue using Mouse and Rabbit Specific HRP/DAB (ABC) Detection IHC kit

產品	適用一級抗體物種來源
Mouse Specific HRP/AEC (ABC) Detection IHC kit	Mouse
Mouse specific HRP/DAB (ABC) Detection IHC kit	Mouse
Rabbit specific HRP/AEC (ABC) Detection IHC kit	Rabbit
Rabbit specific HRP/DAB (ABC) Detection IHC kit	Rabbit
Mouse and Rabbit Specific HRP/DAB (ABC) Detection IHC kit	Mouse & Rabbit

多重染色試劑

DoubleStain/TripleStain IHC kit

- 可使用相同物種來源的一級抗體進行多重染色。
- 克服鼠類來源抗體檢測鼠類組織 (mouse on mouse) 所產生的高背景訊號問題。
- 二級抗體帶有多個 HRP 或 AP 酵素，可有效放大訊號。
- 呈色劑顏色組合多元：有 red, green, purple, brown and black 多種顏色可選擇。
- 配件完整：皆含有二級抗體、呈色劑及封片膠...等。
- 另有可同時使用於 Human 及 Rodent tissue 的試劑組可供選擇。



Staining human colon cancer tissue using TripleStain IHC kit: M&M&R on human tissue (DAB, AP/Red & HRP/Green). Mouse antismooth muscle actin (red), rabbit anti-CEA (brown), mouse anti-PCNA (emerald)

組織物種: Human tissue

種類	產品
雙重染色	DoubleStain IHC kit: G&M on human tissue (DAB & AP/Red)
	DoubleStain IHC kit: G&M on human tissue (BCIP & AEC)
	DoubleStain IHC kit: G&M on human tissue (HRP/Green & AP/Red)
	DoubleStain IHC kit: M&R on human tissue (DAB & AP/Red)
	DoubleStain IHC kit: M&R on human tissue (DAB & FastRed)
	DoubleStain IHC kit: M&R on human tissue (BCIP & AEC)
	DoubleStain IHC kit: M&R on human tissue (HRP/Green & FastRed)

種類	產品
三重染色	TripleStain IHC kit: M&M&R on human tissue (DAB, AP/Red & HRP/Green)
	TripleStain IHC kit: M&M&R on human tissue (DAB, AP/Red & DAB/Ni)
	TripleStain IHC kit: R&R&M on human tissue (DAB, AP/Red & HRP/Green)
	TripleStain IHC kit: R&R&M on human tissue (DAB, AP/Red & DAB/Ni)
	TripleStain IHC kit: M&R&G on human tissue (DAB, AP/Red & HRP/Green)
	TripleStain IHC kit: M&R&G on human tissue (DAB, AP/Red & DAB/Ni)

組織物種: Rodent tissue

種類	產品
雙重染色	DoubleStain IHC kit: M&M on rodent tissue (DAB & AP/Red)
	DoubleStain IHC kit: M&M on rodent tissue (BCIP & AEC)
	DoubleStain CL IHC kit: M&M on rodent tissue (HRP/Green & AP/Red)
	DoubleStain IHC kit: M&M on rodent tissue (DAB & FastRed)
	DoubleStain IHC kit: M&Rt on mouse tissue (DAB & AP/Red)
	DoubleStain IHC kit: M&Rt on mouse tissue (BCIP & AEC)
	DoubleStain IHC kit: M&Rt on mouse tissue (HRP/Green & AP/Red)

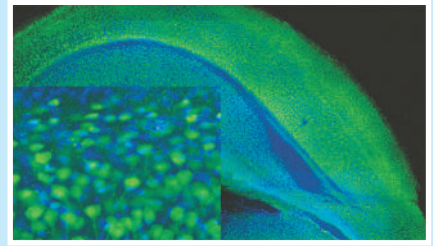
種類	產品
三重染色	TripleStain IHC kit: M&M&R on rodent tissue (DAB, HRP/Green & AP/Red)
	TripleStain IHC kit: M&M&R on rodent tissue (DAB, AP/Red & DAB/Ni)
	TripleStain IHC kit: R&R&M on rodent tissue (DAB, AP/Red & HRP/Green)
	TripleStain IHC kit: R&R&M on rodent tissue (DAB, AP/Red & DAB/Ni)
	TripleStain IHC kit: M&R&Rt on rodent tissue (DAB, HRP/Green & AP/Red)
	TripleStain IHC kit: M&R&Rt on rodent tissue (DAB, DAB/Ni & AP/Red)

M: Mouse, R: Rabbit, Rt: Rat, G: Goat

IHC 常備試劑

Tissue Cleaning Kit

- 步驟簡單高效，無需特殊儀器設備，以 8mm 厚度小鼠全腦組織切片為例，約 48 小時即可達到澄清透明效果；1mm 厚度切片則僅需約 4 小時。
- 可回復性，不會破壞組織構形，同一組織樣本可在三維影像拍攝後，透過回復處理繼續進行 H & E 染色、或其他化學染色。
- 相容於各式化學與螢光染劑，不會影響訊號呈現。



NeuN antibody (green) and DAPI (blue) used with Tissue Cleaning Kit to clear and stain a 1 mm thick coronal section of mouse brain.

種類	產品
組織透明化試劑 (Tissue Cleaning)	Tissue Cleaning Kit
	3D Cell Culture Cleaning Kit
組織脫鈣液 (Decalcification)	EDTA Decalcification Solution
組織固定液 (Fixation)	Tissue Fixation Solution / 4% Paraformaldehyde (without DEPC)
	Tissue Fixation Solution / 4% Paraformaldehyde (with DEPC)
抗原修復液 (Antigen Retrieval)	EDTA Buffer pH 9.0
	Sodium Citrate Buffer pH 6.0
	Proteinase K Antigen Retrieval Solution
	Trypsin Antigen Retrieval Solution
	HistoReveal (15ml)
阻斷劑 (Blocking)	Endogenous Peroxidase Blocking Buffer (3% H2O2)
	5% BSA Blocking Buffer
	Protein Block
	Avidin/Biotin Blocking Kit
稀釋液 (Diluent)	Antibody Dilution Buffer
	Mouse on Mouse Polymer IHC Kit
呈色劑 (Chromogen)	DAB substrate
核染試劑 (Counterstain)	Hematoxylin
	DAPI Reagent
封片膠 (Mounting Medium)	Aqueous Mounting Medium
	Anti-Fade Fluorescence Mounting Medium - Aqueous, Fluoroshield
HE 染色試劑	Mounting Medium With DAPI - Aqueous, Fluoroshield
阻水筆	HE staining Kit
	PAP pen

IHC 實驗代工服務

準確可靠的實驗數據

使用臨床診斷等級 Leica IHC 全自動染色機執行所有 IHC 染色步驟。使每批染色結果標準一致。

服務流程



- 1 組織包埋
可依需求提供組織包埋服務。
- 2 石蠟切片
可依需求提供石蠟切片服務。
- 3 組織染色
• H&E 組織化學染色
• IHC 免疫組織化學染色

- 1 聯繫伯森業務 確認服務內容與費用
- 2 訂購服務 所需抗體
- 3 製備樣本與 填寫送樣表單
- 4 通知伯森業務 收取樣本與表單
- 5 取得染色 結果報告