



# 選對好工具 輕鬆WB沒煩惱



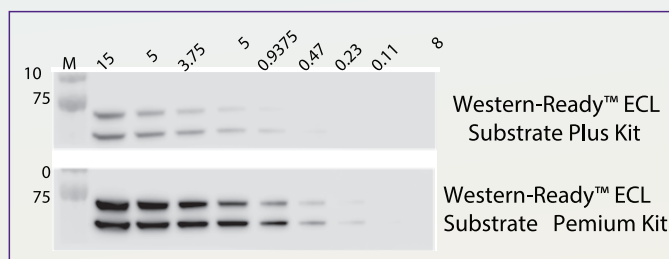
## 1. 高敏感度WB呈色劑-Western-Ready™ ECL Substrate Kits

### 產品優勢:

- 高敏感度 ECL substrate
- Luminol-based 偵測系統
- 適用於CCD imager and film
- 訊號可持續達 4 小時
- 提供 20 mL 的小包裝容量

Western-Ready™ ECL Substrate Plus Kits.  
非常適合檢測低至中皮克 (picogram) 水平的蛋白。

Western-Ready™ ECL Substrate Premium Kits.  
提供更靈敏的高飛克 (femtogram) 檢測蛋白水平。



Western blot analysis using Western-Ready™ ECL Substrate Plus and Premium Kits. The indicated amounts of whole cell extract from HeLa cells were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a nitrocellulose membrane, and probed with 0.1 µg/mL (1:5000 dilution) of purified anti-Lamin A/C antibody (Cat. No. 600002) overnight at 4°C. Proteins were visualized using HRP goat anti-mouse IgG antibody (Cat. No. 405306) at a 1:3000 dilution, followed by incubation with Western-Ready™ ECL Substrate Plus Kit or Western-Ready™ ECL Substrate Premium Kit.



## 2. Direct-Blot™ HRP Primary Antibodies

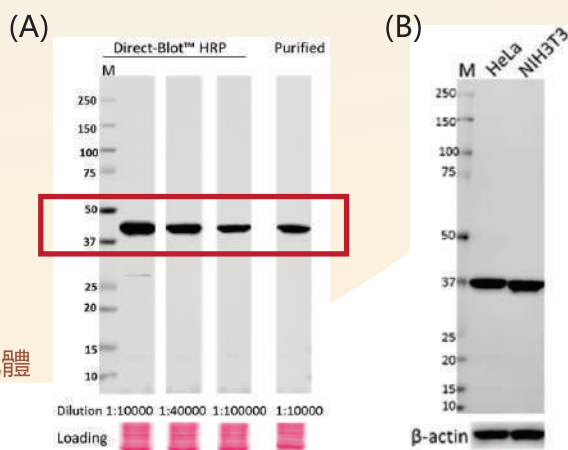
- 一抗培養完可直接偵測
- 訊號可比傳統WB (一抗+二抗)
- 節省實驗操作的時間
- 確保高靈敏度



尋找其他 Direct-Blot™ 抗體



(C) Direct-Blot™ 抗體操作示意圖



(A) Direct-actin Antibody

(B) Direct-Blot™ HRP anti-GAPDH Antibody

Biolegend經過精心研發並通過一系列的測試，  
HRP-direct抗體的靈敏度不會輸傳統WB

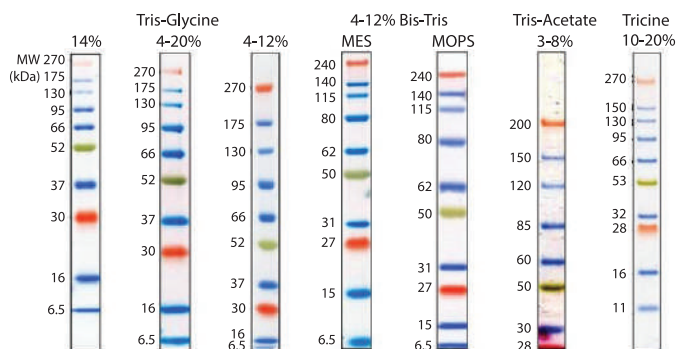




## 4. 預染蛋白質梯度物 -Prime-Step™

| Description                                       | Size           | Cat. No.        |
|---------------------------------------------------|----------------|-----------------|
| Prime-Step™ Prestained Broad Range Protein Ladder | 50 µL   500 µL | 773301   773302 |

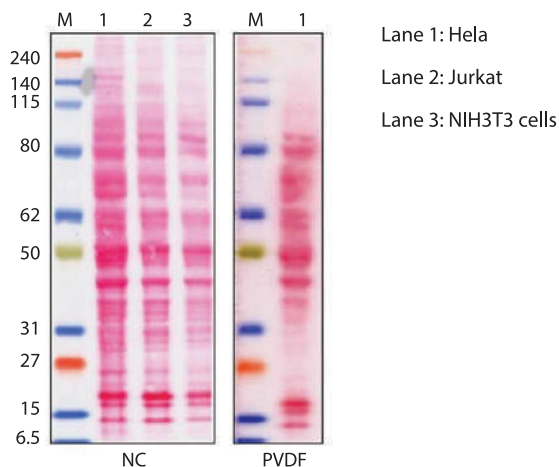
### ■ Marker顯示清楚乾淨



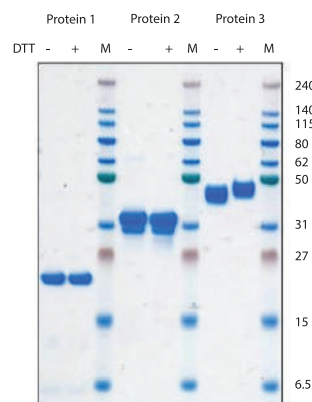
### 產品優勢:

- 條帶分明且清楚穩定
- 分子量範圍從 6.5kDa-270kDa
- 可適用於不同的 SDS-PAGE gel 和緩衝系統
- 單次使用只需要少用量(僅需3µL)

### ■ Transfer效率優異



### ■ 適用於蛋白純化過程的大小檢測



## 5. Western-Ready™ Buffers

BioLegend 提供全套的 Western-Ready™ 試劑，可加速您實驗的流程。

| Description                                       | Use                                                                                             | Size                      | Cat. No.                   |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| Western-Ready™ ECL Substrate Plus Kit             | The ECL Substrate Plus Kit is useful for detecting picogram amounts of antigen.                 | 20 mL<br>200 mL<br>500 mL | 426315<br>426316<br>426317 |
| Western-Ready™ ECL Substrate Premium Kit          | The ECL Substrate Premium Kit detects femtogram amounts of antigen.                             | 20 mL<br>200 mL           | 426318<br>426319           |
| Western-Ready™ TBS Tween-20 Buffer (20X)          | Buffer for blocking, washing, and antibody dilution. Formulated to reduce non-specific binding. | 1 L                       | 426309                     |
| Western-Ready™ Rapid Protein Extraction Buffer    | Stringent lysis buffer to extract proteins from all subcellular compartments.                   | 100 mL                    | 426305                     |
| Western-Ready™ MES SDS-PAGE Running Buffer (10X)  | Running buffer for resolving small-to-medium-sized proteins on Bis-Tris SDS page gels.          | 1 L                       | 426307                     |
| Western-Ready™ Protein Sample Loading Buffer (5X) | Used for the preparation of samples for non-reducing and reducing SDS-PAGE.                     | 20 mL                     | 426311                     |

### 產品優勢:

- 內部質量測試
- 100% 保證性能



尋找更多 western 抗體和試劑



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## 6. Loading Controls

- 可應用於多個物種: Human、Mouse、Rat等
- 訊號強: 大量節省每次實驗所需的抗體用量
- 高靈敏度: 抗體專一性佳, 輕鬆分辨 Target Band



| Target                  | Clone    | Size / Cat. No.                 | Application |
|-------------------------|----------|---------------------------------|-------------|
| β-Actin                 | Poly6221 | 50 µl / 622101, 200 µl / 622102 | WB, IF, IHC |
|                         | 2F1-1    | 25 µg / 643801, 100 µg / 643802 | WB, IF      |
|                         | W16197A  | 25 µg / 664801, 100 µg / 664802 | WB          |
| GAPDH                   | FF26A/F9 | 25 µg / 649201, 100 µg / 649202 | WB          |
|                         | W17079A  | 25 µg / 607901, 100 µg / 607902 | WB, ICC     |
| Tubulin-α               | 10D8     | 25 µg / 627901, 100 µg / 627902 | WB, IF      |
| HSP-60                  | P83G8    | 100 µg / 681502                 | WB, ICC     |
| Histone H3 (C-terminus) | 1B1-B2   | 25 µg / 819411, 100 µg / 819412 | WB, IHC-P   |



尋找更多  
BioLegend 抗體



## 5. 抗體組合包- Antibody Sampler Kit

- 一組最多可含 12隻不同的抗體
- 抗體應用廣泛
- 每隻抗體有 25µg
- 每隻抗體量足夠完成 5~50 mini-gel 的WB 或是 25 個slides 的 IHC

適合一次要做多個目標物實驗室  
節省經費的好選擇

| Description                                  | Clones                                                                          | Specificities                                                                                                                                   | Cat. No. (1 kit) |
|----------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| E.coli RNA Polymerase Antibody Sampler Kit   | NT73, NT63, 4RA2, 8RB13                                                         | RNA Polymerase β prime, β, α                                                                                                                    | 699907           |
| Epitope Tag Small Motif Antibody Sampler Kit | L5, 9E10, 16B12, 7/4, J099B12                                                   | DYKDDDDK tag, Myc tag, HA tag, V5 tag, His tag                                                                                                  | 699903           |
| Epitope Tag Big Motif Antibody Sampler Kit   | P1A12, 1GFP63, 8C5.5, 4H12A59                                                   | GST tag, GFP tag, mCherry tag, Thioredoxin tag                                                                                                  | 699902           |
| IRF Antibody Sampler Kit                     | 13H3A44, 13B2A38, 12A4A35, IRF4.3E4, 11F4A09, 14B2C16, 12G9A36, 7G11A45, 5A3A39 | IRF 1 - 9                                                                                                                                       | 699906           |
| α-Synuclein Antibody Sampler Kit             | A15119B, P-syn/81A, A15115A, A15127A, A15126D                                   | α-Synuclein Phospho (Tyr39), α-Synuclein Phospho (Ser129), α-Synuclein (80-96), α-Synuclein (C-Terminal Truncated x-122), α-Synuclein (117-122) | 899903           |
| Tau Antibody Sampler Kit                     | A15091A, M7004D06, A16103A, A16097F                                             | Tau Phospho (Ser262), Tau Phospho (Thr181), Tau (1-223), Tau (368-441)                                                                          | 899902           |
| Glial Cell Marker Antibody Sampler Kit       | S16007D, 8E12.D9, SMI 24, SMI 91, P82H9                                         | P2RY12, CX3CR1, GFAP, Myelin CNPase, Myelin Basic Protein                                                                                       | 899904           |

| Description                     | Clones           | Specificities                      | Cat. No. (1 kit) |
|---------------------------------|------------------|------------------------------------|------------------|
| PhosphoPair STAT1 Antibody Set  | 10C4B40, A15158B | STAT1 (Ser727)                     | 699955           |
| PhosphoPair STAT3 Antibody Set  | 4G4B45, 13A3-1   | STAT3 (Tyr705)                     | 699952           |
| PhosphoPair PLK-1 Antibody Set  | 3F8, 2A3         | PLK-1 (Thr210)                     | 699956           |
| PhosphoPair ERK1/2 Antibody Set | 6B8B69, W15133B  | ERK1/2 (Thr202)<br>ERK1/2 (Tyr204) | 699951           |
| PhosphoPair mTOR Antibody Set   | 6H9B10, A17024A  | mTOR (Ser2448)                     | 699953           |
| PhosphoPair Lck Antibody Set    | LCK-01, A18002D  | Lck (Tyr394)                       | 699954           |



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# WB大補帖 一帖在手 DATA 無敵



| What's the issue?   | 可能的原因                                                                       | 解決辦法                                                         |
|---------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------|
| 訊號低或無               | 一抗二抗不相容                                                                     | ■ 確認使用的二抗是否可以結合一抗 (例如: 一抗是rat的, 確認使用的二抗也是anti-rat的)          |
|                     | 呈色劑失活                                                                       | ■ 用一隻不同的一抗進行實驗, 確定呈色劑的功能是否正常                                 |
|                     | 轉漬沒轉好                                                                       | ■ 可以染Ponceau S 確認轉漬是否成功<br>■ 確認使用的轉漬條件是否正確                   |
|                     | 一抗沒有辦法辨認使用的物種內的目標蛋白                                                         | ■ 跑一個正對照組<br>■ 確認文獻或是進行BLAST比對物種間的目標蛋白序列差異                   |
| 背景值高                | Wash或是Blocking不完全                                                           | ■ 增加Blocking的時間<br>■ 替換使用的reagent<br>■ 增加wash的次數             |
|                     | 一抗使用的濃度過高                                                                   | ■ 使用不同濃度的一抗做實驗, 找出最佳的濃度<br>■ 使用較稀的濃度培養較長的時間 (減緩抗體跟目標蛋白的結合時間) |
|                     | 膜的種類導致反應溫度過高                                                                | ■ PVDF膜產生的背景值比NC膜高<br>■ 將膜放在4°C反應                            |
|                     | 目標蛋白發生降解                                                                    | ■ 使用新鮮的樣品<br>■ 在buffer內添加蛋白酶抑制劑                              |
| 多條bands或是非專一性的bands | 細胞繼代的代數過多造成不同蛋白質的堆積                                                         | ■ 使用原始, 沒有經過太多繼代的細胞同時進行實驗確認原因                                |
|                     | 目標蛋白有不同的轉譯後修飾 (例如acetylation, methylation, or glycosylation等), 造成分子量比預期kDa大 | ■ 參考文獻, 使用試劑來移除這些修飾作用                                        |



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