

m-IgG₁ BP-HRP: sc-525408

BACKGROUND

Mouse IgG₁ binding protein (IgG₁ BP) conjugated to horseradish peroxidase (HRP) is a strongly recommended alternative to conventional goat/rabbit anti-mouse IgG secondary antibodies for Western Blotting (WB) and immunohistochemical (IHC) signal enhancement. Mouse IgG₁ binding protein is a highly specific reagent that provides strong signal with minimal background and virtually complete elimination of lot to lot variation associated with conventionally generated secondary antibodies. Mouse IgG₁ binding protein (m-IgG₁ BP) is suitable for binding to most, but not all, mouse IgG₁ immunoglobulins, comprising approximately 55% of SCBT's mouse monoclonal antibodies; not suitable for use with mouse monoclonal IgG_{2a}, IgG_{2b}, IgG₃, IgM, IgA and IgE antibodies. It may slightly cross react with mouse IgG_{2b} or goat IgG antibodies. Not cross reactive with human, rat or rabbit IgG antibodies.

SOURCE

m-IgG₁ BP-HRP is a purified recombinant mouse IgG₁ binding protein conjugated to horseradish peroxidase (HRP).

PRODUCT

Each vial contains 100 µg mouse IgG₁ binding protein-HRP in 0.5 ml of PBS containing 40% glycerol, 1% stabilizer protein and < 0.01% thimerosal.

APPLICATIONS

m-IgG₁ BP-HRP is recommended for detection of mouse IgG₁ by ECL Western Blotting (starting dilution: 1:1000, dilution range: 1:1000-1:10000) and immunohistochemistry (including paraffin-embedded sections) (starting dilution: 1:25, dilution range 1:25-1:100). Optimal dilution to be determined by titration.

For Western Blotting using tissue extracts and m-IgG₁ BP-HRP, we strongly recommend subtracting endogenous immunoglobulins from extracts with Protein G PLUS-Agarose Reagent: sc-2002, to prevent Western Blotting interference when detecting proteins of approximately 25 kDa in size.

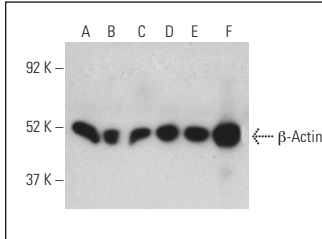
RECOMMENDED SUPPORT PRODUCTS

- Protein G PLUS-Agarose Reagent: sc-2002
- Western Blotting Luminol Reagent, for 2,000 cm² membrane area: sc-2048
- RIPA Lysis Buffer, 50 ml, cell lysis buffer with protease inhibitors: sc-24948
- Electrophoresis Sample Buffer, 2X, 25 ml, reducing buffer: sc-24945
- UltraCruz[®] Protease Inhibitor Cocktail Tablet, 20 tablets: sc-29130
- Running Buffer, 10X, 1 L, TRIS-Glycine WB running buffer, pH 8.3: sc-24949
- Towbin, with SDS, 10X, 1 L, WB transfer buffer pH 8.3: sc-24954
- TBS Blotto A, lyophilized powder in single-use bottle: sc-2333
- UltraCruz[®] PVDF Transfer Membrane, 0.45 µm, 30 cm x 3 m roll: sc-3723
- UltraCruz[®] Nitrocellulose Pure Transfer Membrane, 0.22 µm, 30 cm x 3 m roll: sc-3718
- UltraCruz[®] Tissue Culture Dish, 100 mm polystyrene dish: sc-200286
- UltraCruz[®] Autoradiography Film, Blue, 8 x 1, 100 sheets: sc-201697
- UltraCruz[®] Gel Incubation Trays, 100 per pack: sc-201755 (blue), sc-201756 (green), sc-201757 (pink), sc-201758 (yellow), sc-201759 (orange)

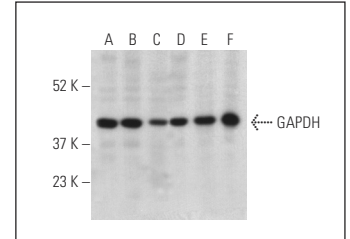
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

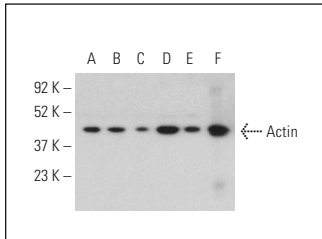
DATA



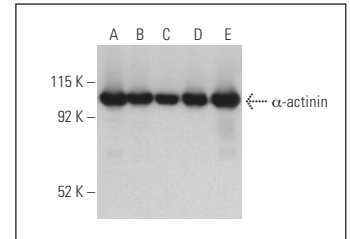
β-Actin (C4): sc-47778. Western blot analysis of β-Actin expression in Jurkat (A), MCF7 (B), ZR-75-1 (C), CCRF-CEM (D) and HeLa (E) whole cell lysates and human colon tissue extract (F). Detection reagent used: m-IgG₁ BP-HRP: sc-525408.



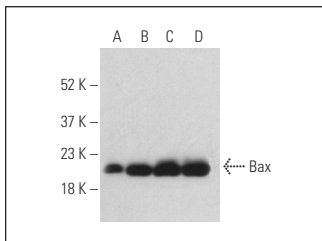
GAPDH (A-3): sc-137179. Western blot analysis of GAPDH expression in HeLa (A), Jurkat (B), U-937 (C), MDA-MB-231 (D), NIH/3T3 (E) and 3T3-L1 (F) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.



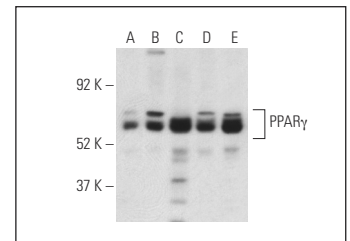
Actin (C-2): sc-8432. Western blot analysis of Actin expression in Jurkat (A), MCF7 (B), ZR-75-1 (C), CCRF-CEM (D) and HeLa (E) whole cell lysates and human colon tissue extract (F). Detection reagent used: m-IgG₁ BP-HRP: sc-525408.



α-actinin (H-2): sc-17829. Western blot analysis of α-actinin expression in HeLa (A), Jurkat (B), MOLT-4 (C), NTERA-2 cl.D1 (D) and RT-4 (E) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.



Bax (2D2): sc-20067. Western blot analysis of Bax expression in HuT 78 (A), MCF7 (B), HT-1080 (C) and ACHN (D) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.



PPARγ (E-8): sc-7273. Western blot analysis of PPARγ expression in HeLa (A), Jurkat (B), U-937 (C), THP-1 (D) and MDA-MB-231 (E) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.