

m-IgG_{2b} BP-HRP: sc-542741

BACKGROUND

Mouse IgG_{2b} binding protein (m-IgG_{2b} 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 IgG_{2b} 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 IgG_{2b} binding protein (m-IgG_{2b} BP) is suitable for binding to most, but not all mouse monoclonal IgG_{2b} antibodies; not suitable for use with mouse monoclonal IgG₁, IgG_{2a}, IgG₃, IgM, IgA or IgE antibodies. Not cross reactive with human, rat or goat IgG antibodies.

SOURCE

m-IgG_{2b} BP-HRP is a purified recombinant mouse IgG_{2b} binding protein conjugated to horseradish peroxidase (HRP).

PRODUCT

Each vial contains 50 µg mouse IgG_{2b} binding protein-HRP in 0.5 ml of PBS containing 40% glycerol, 1% stabilizer protein and < 0.01% thimerosal.

APPLICATIONS

m-IgG_{2b} BP-HRP is recommended for detection of mouse IgG_{2b} 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-IgG_{2b} 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.

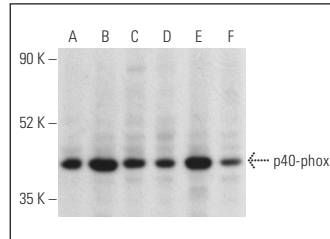
RECOMMENDED SUPPORT PRODUCTS

- 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)

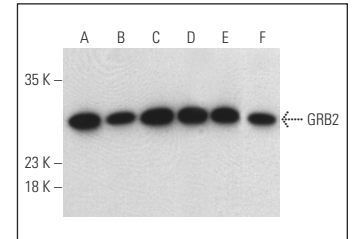
STORAGE

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

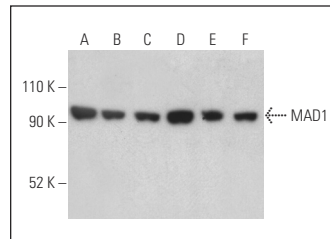
DATA



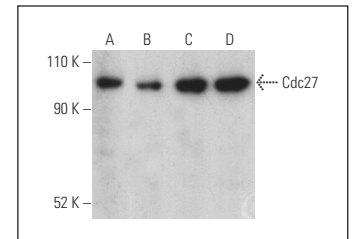
p40-phox (B-1): sc-48376. Western blot analysis of p40-phox expression in THP-1 (A), HL-60 (B), HEL 92.1.7 (C), RPMI-8226 (D), U-937 (E) and U-698-M (F) whole cell lysates. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.



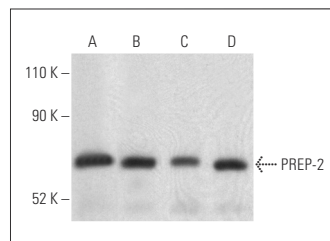
GRB2 (E-1): sc-17813. Western blot analysis of GRB2 expression in Jurkat (A), HEK293 (B), Ramos (C), HL-60 (D), MOLT-4 (E) and C6 (F) whole cell lysates. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.



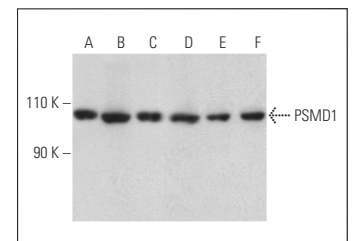
MAD1 (9B10): sc-47746. Western blot analysis of MAD1 expression in MEG-01 (A), A-431 (B), HeLa (C) and BJAB (D) nuclear extracts and Ramos (E) and THP-1 (F) whole cell lysates. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.



Cdc27 (AF3.1): sc-9972. Western blot analysis of Cdc27 expression in K-562 (A) and HEL 92.1.7 (B) whole cell lysates and A-431 (C) and Jurkat (D) nuclear extracts. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.



PREP-2 (56.1): sc-101857. Western blot analysis of PREP-2 expression in HeLa (A), A-673 (B), A549 (C) and NIH/3T3 (D) nuclear extracts. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.



PSMD1 (C-7): sc-166038. Western blot analysis of PSMD1 expression in Hep G2 (A), K-562 (B), Jurkat (C), JAR (D), HeLa (E) and Sol8 (F) whole cell lysates. Detection reagent used: m-IgG_{2b} BP-HRP: sc-542741.

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.