

m-IgG_{2a} BP-HRP: sc-542731

BACKGROUND

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

SOURCE

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

PRODUCT

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

APPLICATIONS

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

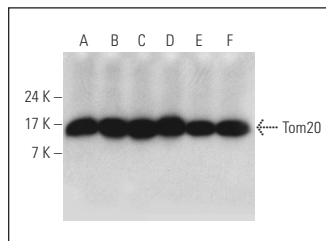
RECOMMENDED SUPPORT PRODUCTS

- 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)

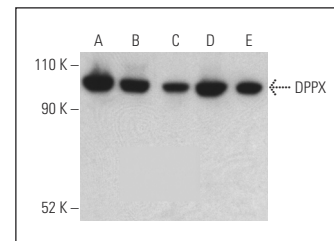
STORAGE

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

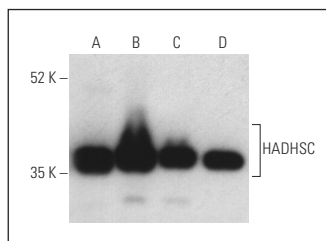
DATA



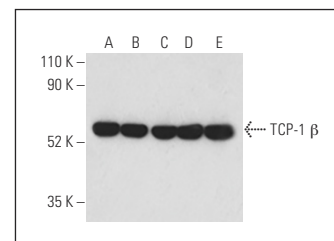
Tom20 (F-10): sc-17764. Western blot analysis of Tom20 expression in Raji (A), SW480 (B), Jurkat (C), Caki-1 (D), A549 (E) and BJAB (F) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.



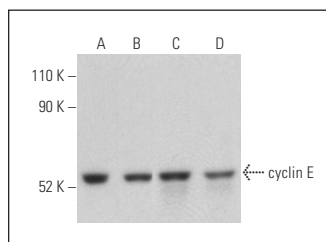
DPPX (A-8): sc-365147. Western blot analysis of DPPX expression in DU 145 (A), IMR-32 (B), Neuro-2A (C), F9 (D) and AT3B-1 (E) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.



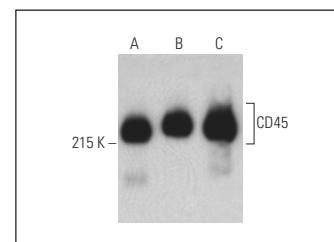
HADHSC (A-5): sc-376525. Western blot analysis of HADHSC expression in Hep G2 (A), c4 (B), 3T3-L1 (C) and A-10 (D) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.



TCP-1 β (F39 P7 F11): sc-47717. Western blot analysis of TCP-1 β expression in HEL 92.1.7 (A), Caki-1 (B), ZR-75-1 (C), F9 (D) and NIH/3T3 (E) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.



cyclin E (B-7): sc-48420. Western blot analysis of cyclin E expression in Jurkat nuclear extract (A) and A-673 (B), U-698-M (C) and SK-BR-3 (D) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.



CD45 (158-4D3): sc-52386. Western blot analysis of CD45 expression in U-698-M (A), NAMALWA (B) and GA-10 (C) whole cell lysates. Detection reagent used: m-IgG_{2a} BP-HRP: sc-542731.

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.