

# m-IgGκ BP-HRP: sc-516102

## BACKGROUND

Mouse IgGκ light chain binding protein is a strongly recommended alternative to conventional anti-mouse IgG secondary antibodies for Western Blotting (WB) and immunohistochemical (IHC) signal enhancement. Mouse IgGκ light chain binding protein is a highly specific detection reagent that provides strong signal with minimal background and virtually complete elimination of lot to lot variation associated with conventionally generated secondary antibodies. Mouse IgGκ light chain binding protein (m-IgGκ BP) conjugated to horseradish peroxidase (HRP) is suitable for binding to mouse IgGκ light chain immunoglobulins, comprising a vast majority of mouse monoclonal primary antibodies; not suitable for use with mouse monoclonal IgGλ light chain primary antibodies.

## SOURCE

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

## PRODUCT

Each vial contains 200 µg mouse IgGκ binding protein-HRP in 0.5 ml of PBS containing 40% glycerol, 1% stabilizer protein and < 0.01% thimerosal.

## APPLICATIONS

m-IgGκ BP-HRP is recommended for detection of mouse IgGκ light chain by 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-IgGκ 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.

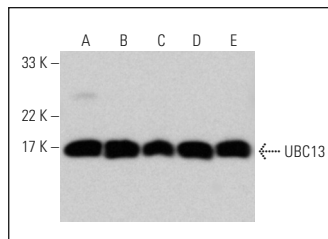
## RECOMMENDED SUPPORT PRODUCTS

- Protein G PLUS-Agarose Reagent: sc-2002
- Western Blotting Luminol Reagent, for 2,000 cm<sup>2</sup> 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<sup>®</sup> 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<sup>®</sup> PVDF Transfer Membrane, 0.45 µm, 30 cm x 3 m roll: sc-3723
- UltraCruz<sup>®</sup> Nitrocellulose Pure Transfer Membrane, 0.22 µm, 30 cm x 3 m roll: sc-3718
- UltraCruz<sup>®</sup> Tissue Culture Dish, 100 mm polystyrene dish: sc-200286
- UltraCruz<sup>®</sup> Autoradiography Film, Blue, 8 x 1, 100 sheets: sc-201697
- UltraCruz<sup>®</sup> Gel Incubation Trays, 100 per pack: sc-201755 (blue), sc-201756 (green), sc-201757 (pink), sc-201758 (yellow), sc-201759 (orange)

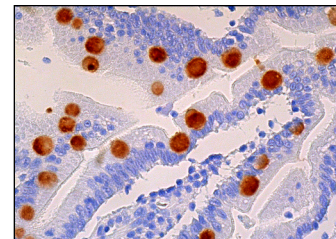
## STORAGE

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

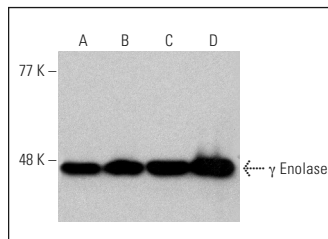
## DATA



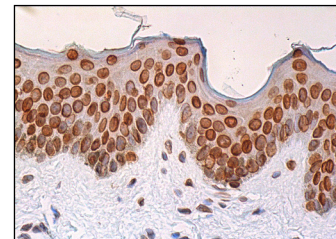
m-IgGκ BP-HRP: sc-516102. Western blot analysis of UBC13 expression in BJAB (A), CCRF-CEM (B), Hep G2 (C), C6 (D) and NIH/3T3 (E) whole cell lysates. Antibody tested: UBC13 (F-10): sc-376470.



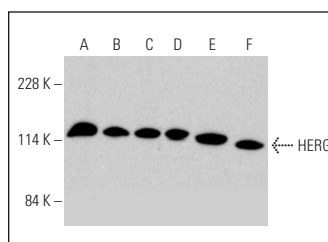
m-IgGκ BP-HRP: sc-516102. Immunoperoxidase detection of Mucin 2 in formalin fixed, paraffin-embedded human small intestine tissue, showing cytoplasmic staining of goblet cells. Antibody tested: Mucin 2 (F-2): sc-515032.



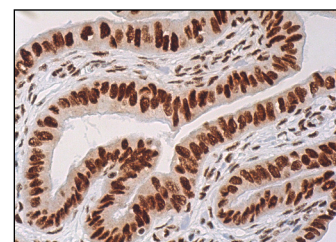
m-IgGκ BP-HRP: sc-516102. Western blot analysis of Enolase expression in C6 (A), RPE-J (B), Hep G2 (C) and SH-SY5Y (D) whole cell lysates. Antibody tested: Enolase (D-7): sc-376375.



m-IgGκ BP-HRP: sc-516102. Immunoperoxidase detection of Lamin A/C in formalin fixed, paraffin-embedded human skin tissue, showing nuclear envelope staining of keratinocytes, fibroblasts, Langerhans cells and melanocytes. Antibody tested: Lamin A/C (E-1): sc-376248.



m-IgGκ BP-HRP: sc-516102. Western blot analysis of HERG expression in K-562 (A), EOC 20 (B), IMR-32 (C), RAW 264.7 (D), MCF7 (E) and Jurkat (F) whole cell lysates. Antibody tested: HERG (F-12): sc-377388.



m-IgGκ BP-HRP: sc-516102. Immunoperoxidase detection of ERα in formalin fixed, paraffin-embedded human fallopian tube tissue, showing nuclear staining of glandular cells. Antibody tested: ERα (C-3): sc-514857.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.