m-IgGk BP-HRP (Cruz Marker): sc-516102-CM

BACKGROUND

Mouse IgGk light chain binding protein (m-IgGk BP) is suitable for binding to mouse IgGk light chain immunoglobulins, comprising a vast majority of mouse monoclonal primary antibodies; not suitable for use with mouse monoclonal IgGk light chain primary antibodies. We offer a Cruz Marker™ compatible m-IgGk BP conjugated to horseradish peroxidase (HRP), m-IgGk BP-HRP (Cruz Marker), which is used in conjunction with Santa Cruz Biotechnology’s Cruz Marker™ molecular weight standards. m-IgGk BP-HRP (Cruz Marker) recognizes an epitope common to each of the Cruz Marker™ molecular weight standards. m-IgGk BP-HRP (Cruz Marker) is a strongly recommended alternative to our conventional Cruz Marker™ compatible bovine/donkey/goat/rabbit anti-mouse IgGk secondary antibodies for Western Blotting (WB) signal enhancement. Mouse IgGk light chain 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. For mouse IgGk immunoglobulins, comprising approximately 2% of mouse monoclonal antibodies; we recommend m-IgGk BP-HRP (Cruz Marker): sc-516132-CM.

SOURCE

m-IgGk BP-HRP (Cruz Marker) is a Cruz Marker™ compatible, purified recombinant mouse IgGk light chain binding protein conjugated to horseradish peroxidase (HRP).

PRODUCT

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

APPLICATIONS

m-IgGk BP-HRP (Cruz Marker) is recommended for use with Cruz Marker™ Molecular Weight Standards: sc-2035 and mouse IgGk kappa light chain monoclonal antibodies by ECL Western Blotting (starting dilution: 1:1000, dilution range: 1:1000-1:10000). Optimal dilution to be determined by titration.

For Western Blotting using tissue extracts and m-IgGk BP-HRP (Cruz Marker), we strongly recommend substracting 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.

STORAGE

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

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.

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)

DATA

![Western Blot Analysis](image)

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CAT. #</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>m-IgGk BP-HRP (Cruz Marker): sc-516102-CM</td>
<td>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. Suitable for binding to mouse IgGk light chain immunoglobulins, comprising approximately 2% of mouse monoclonal antibodies; not suitable for use with mouse monoclonal IgGk light chain antibodies. Used in conjunction with Cruz Marker™ molecular weight standards. m-IgGk BP-HRP (Cruz Marker) recognizes an epitope common to each of the Cruz Marker™ molecular weight standards.</td>
<td>200 µg in 0.5 ml</td>
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<tr>
<td>Cruz Marker™ Molecular Weight Standards sc-2035</td>
<td>For use as internal standards in Western blotting applications. The ladder consists of six bands: 132 kDa, 90 kDa, 55 kDa, 43 kDa, 34 kDa and 23 kDa, which appear on the final Western blot film after incubation with Cruz Marker™ compatible Western blotting binding proteins.</td>
<td>200 µl</td>
<td></td>
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