

# m-IgG<sub>1</sub> BP-CFL 680: sc-533665

## BACKGROUND

Mouse IgG<sub>1</sub> binding protein (IgG<sub>1</sub> BP) conjugated to CruzFluor™ 680 (CFL 680) is a strongly recommended alternative to conventional goat/rabbit anti-mouse IgG secondary antibodies for NIR Western Blotting (WB), immunofluorescence (IF) and flow cytometry (FCM) signal enhancement. CruzFluor™ 680 (CFL 680) is a near-infrared fluorescent dye that is an excellent substitute for AlexaFluor® 680, offering comparable photostability and the ability to resist protein quenching. Suitable for use with Near-Infrared (NIR) imaging systems, such as LI-COR/Odyssey, Invitrogen/iBright and other comparable systems. Mouse IgG<sub>1</sub> 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<sub>1</sub> binding protein (m-IgG<sub>1</sub> BP) is suitable for binding to most, but not all, mouse IgG<sub>1</sub> immunoglobulins, comprising approximately 55% of SCBT's mouse monoclonal antibodies; not suitable for use with mouse monoclonal IgG<sub>2a</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub>, IgM, IgA and IgE antibodies. It may slightly cross react with mouse IgG<sub>2b</sub> or goat IgG antibodies. Not cross reactive with human, rat or rabbit IgG antibodies.

## SOURCE

m-IgG<sub>1</sub> BP-CFL 680 is a purified recombinant mouse IgG<sub>1</sub> binding protein conjugated to CruzFluor™ 680 (CFL 680).

## PRODUCT

Each vial contains 100 µg mouse IgG<sub>1</sub> binding protein-CFL 680 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

## APPLICATIONS

m-IgG<sub>1</sub> BP-CFL 680 is recommended for detection of mouse IgG<sub>1</sub> by NIR Western Blotting (starting dilution: 1:1000, dilution range: 1:1000-1:10000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:200) and flow cytometry (0.5-1 µg per 1 x 10<sup>6</sup> cells). Optimal dilution to be determined by titration.

For Western Blotting using tissue extracts and m-IgG<sub>1</sub> BP-CFL 680, 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

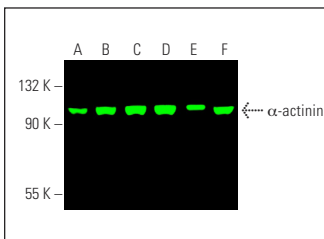
- RIPA Lysis Buffer, 50 ml, cell lysis buffer with protease inhibitors: sc-24948
- Electrophoresis Sample Buffer, 2X, 25 ml, reducing buffer: sc-24945
- Running Buffer, 10X, 1 L, TRIS-Glycine WB running buffer, pH 8.3: sc-24949
- Towbin, with SDS, 10X, 1 L, WB transfer buffer pH 8.3: sc-24954
- TBS Blotto 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® Gel Incubation Trays, 100 per pack: sc-201755 (blue), sc-201756 (green), sc-201757 (pink), sc-201758 (yellow), sc-201759 (orange)

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

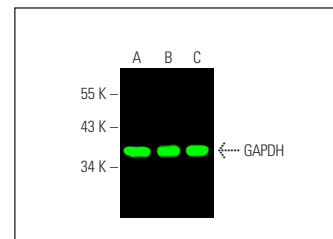
## STORAGE

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

## DATA



α-actinin (H-2): sc-17829. Near-infrared western blot analysis of α-actinin expression in HeLa (A), Jurkat (B), HeLa (C), RT-4 (D), SJRH30 (E) and K-562 (F) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>1</sub> BP-CFL 680: sc-533665.



GAPDH (0411): sc-47724. Near-infrared western blot analysis of GAPDH expression in Jurkat (A), BJAB (B) and IMR-32 (C) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>1</sub> BP-CFL 680: sc-533665.

## 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) for detailed protocols and support products.

## CRUZFLUOR™ SPECTRAL PROPERTIES

PRODUCT	CAT. #	EXCITATION MAXIMUM	EMISSION MAXIMUM
m-IgG Fc BP-CFL 488	sc-533653	488 nm	514 nm
m-IgG <sub>1</sub> BP-CFL 488	sc-533661		
m-IgG Fc BP-CFL 555	sc-533654	556 nm	569 nm
m-IgG <sub>1</sub> BP-CFL 555	sc-533662		
m-IgG Fc BP-CFL 594	sc-533655	587 nm	603 nm
m-IgG <sub>1</sub> BP-CFL 594	sc-533663		
m-IgG Fc BP-CFL 647	sc-533656	654 nm	669 nm
m-IgG <sub>1</sub> BP-CFL 647	sc-533664		
m-IgG Fc BP-CFL 680	sc-533657	683 nm	700 nm
m-IgG <sub>1</sub> BP-CFL 680	sc-533665		
m-IgG Fc BP-CFL 790	sc-533658	786 nm	811 nm
m-IgG <sub>1</sub> BP-CFL 790	sc-533666		