

m-IgG₁ BP-CFL 488: sc-533661

BACKGROUND

Mouse IgG₁ binding protein (IgG₁ BP) conjugated to CruzFluor™ 488 (CFL 488) is a strongly recommended alternative to conventional goat/rabbit anti-mouse IgG secondary antibodies for RGB Western Blotting (WB), immunofluorescence (IF) and flow cytometry (FCM) signal enhancement. CruzFluor™ 488 (CFL 488) is a green fluorescent dye that is an excellent substitute for AlexaFluor® 488, offering comparable photostability and the ability to resist protein quenching. Suitable for use with RGB imaging systems, such as Invitrogen/iBright and other comparable systems. Mouse IgG₁ 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 IgG₁ binding protein (m-IgG₁ BP) is suitable for binding to most, but not all, mouse IgG₁ immunoglobulins, comprising approximately 55% of SCBT's mouse monoclonal antibodies; not suitable for use with mouse monoclonal IgG_{2a}, IgG_{2b}, IgG₃, IgM, IgA and IgE antibodies. It may slightly cross react with mouse IgG_{2b} or goat IgG antibodies. Not cross reactive with human, rat or rabbit IgG antibodies.

SOURCE

m-IgG₁ BP-CFL 488 is a purified recombinant mouse IgG₁ binding protein conjugated to CruzFluor™ 488 (CFL 488).

PRODUCT

Each vial contains 100 µg mouse IgG₁ binding protein-CFL 488 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG₁ BP-CFL 488 is recommended for detection of mouse IgG₁ by RGB Western Blotting (starting dilution: 1:1000, dilution range: 1:500-1:2000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:200) and flow cytometry (0.5-1 µg per 1 x 10⁶ cells). Optimal dilution to be determined by titration.

RECOMMENDED SUPPORT PRODUCTS

- CrystalCruz[®] Cover Glasses, 22 x 50 mm, precleaned: sc-24975
- PBS (Phosphate Buffered Saline), powder, 1 packet: sc-24947
- Formaldehyde, 37% formaldehyde solution, 25 ml: sc-203049
- Hydrogen Peroxide, 30% solution, 100 ml: sc-203336
- FCM Lysing solution: sc-3621
- FCM Fixation Buffer: sc-3622
- FCM Permeabilization Buffer: sc-3623
- FCM Wash Buffer: sc-3624
- Intracellular FCM System: sc-45063

PROTOCOLS

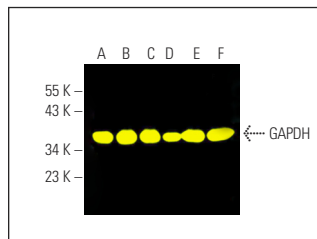
See our web site at www.scbt.com for detailed protocols and support products.

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

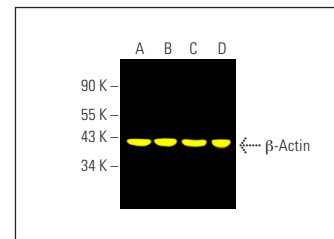
STORAGE

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

DATA



GAPDH (0411): sc-47724. Fluorescent western blot analysis of GAPDH expression in Jurkat (A), MOLT-4 (B), HeLa (C), K-562 (D), BJAB (E) and IMR-32 (F) whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgG₁ BP-CFL 488: sc-533661.



β-Actin (C4): sc-47778. Fluorescent western blot analysis of β-Actin expression in Jurkat (A), HeLa (B), MCF7 (C) and A-431 (D) whole cell lysates. Detection reagent used: m-IgG₁ BP-CFL 488: sc-533661.

RESEARCH USE

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

CRUZFLUOR™ SPECTRAL PROPERTIES

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