SANTA CRUZ BIOTECHNOLOGY, INC.

m-IgG Fc BP-CFL 488: sc-533653

BACKGROUND

Mouse IgG Fc binding protein (m-IgG Fc 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 AlexFluor® 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 IgG Fc 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 Fc binding protein (m-IgG Fc BP) is suitable for binding to the Fc region of most, but not all, mouse IgG_1, IgG_{2a} and IgG_{2b} immunoglobulins, and to a lesser extent to mouse IgG_3; not suitable for use with mouse monoclonal IgM, IgA and IgE. Not cross reactive with human, rat, rabbit and goat IgG antibodies.

SOURCE

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

PRODUCT

Each vial contains 50 µg mouse IgG Fc binding protein-CFL 488 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG Fc BP-CFL 488 is recommended for detection of mouse IgG Fc 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 10^6 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

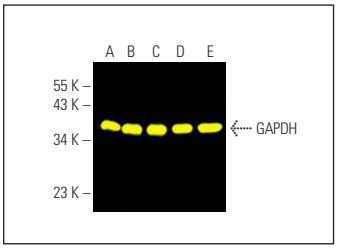
PROTOCOLS

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

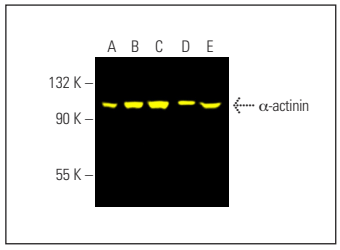
STORAGE

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**), BJAB (**D**) and IMR-32 (**E**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG Fc BP-CFL 488: sc-533653.



α-actinin (H-2): sc-17829. Fluorescent western blot analysis of α-actinin expression in Jurkat (**A**), HeLa (**B**), RT-4 (**C**), SJRH30 (**D**) and K-562 (**E**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG Fc BP-CFL 488: sc-533653.

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 m-IgG_1 BP-CFL 488	sc-533653 sc-533661	488 nm	514 nm
m-IgG Fc BP-CFL 555 m-IgG_1 BP-CFL 555	sc-533654 sc-533662	556 nm	569 nm
m-IgG Fc BP-CFL 594 m-IgG_1 BP-CFL 594	sc-533655 sc-533663	587 nm	603 nm
m-IgG Fc BP-CFL 647 m-IgG_1 BP-CFL 647	sc-533656 sc-533664	654 nm	669 nm
m-IgG Fc BP-CFL 680 m-IgG_1 BP-CFL 680	sc-533657 sc-533665	683 nm	700 nm
m-IgG Fc BP-CFL 790 m-IgG_1 BP-CFL 790	sc-533658 sc-533666	786 nm	811 nm