SANTA CRUZ BIOTECHNOLOGY, INC.

m-IgG$_1$ BP-CFL 647: sc-533664

BACKGROUND

Mouse IgG$_1$ binding protein (IgG$_1$ BP) conjugated to CruzFluor™ 647 (CFL 647) 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™ 647 (CFL 647) is a far-red fluorescent dye that is an excellent substitute for AlexFluor® 647, 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$_1$ 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$_1$ binding protein (m-IgG$_1$ BP) is suitable for binding to most, but not all, mouse IgG$_1$ immunoglobulins, comprising approximately 55% of SCBT's mouse monoclonal antibodies; not suitable for use with mouse monoclonal IgG$_{2a}$, IgG$_{2b}$, IgG$_3$, 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-IgG$_1$ BP-CFL 647 is a purified recombinant mouse IgG$_1$ binding protein conjugated to CruzFluor™ 647 (CFL 647).

PRODUCT

Each vial contains 100 µg mouse IgG$_1$ binding protein-CFL 647 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG$_1$ BP-CFL 647 is recommended for detection of mouse IgG$_1$ 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

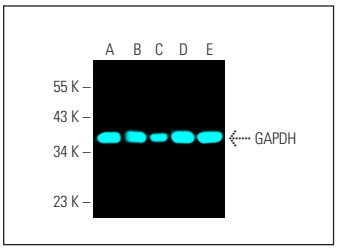
RESEARCH USE

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

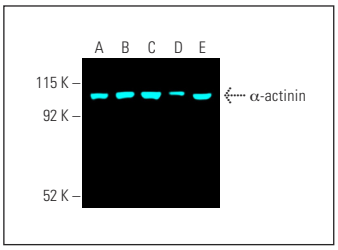
STORAGE

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**), HeLa (**B**), K-562 (**C**), BJAB (**D**) and IMR-32 (**E**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_1$ BP-CFL 647: sc-533664.



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$_1$ BP-CFL 647: sc-533664.

PROTOCOLS

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

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

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