SANTA CRUZ BIOTECHNOLOGY, INC.

m-IgG$_{2b}$ BP-CFL 647: sc-542748

BACKGROUND

Mouse IgG$_{2b}$ binding protein (m-IgG$_{2b}$ 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 AlexaFluor® 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$_{2b}$ 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$_{2b}$ binding protein (m-IgG$_{2b}$ BP) is suitable for for binding to most, but not all mouse monoclonal IgG$_{2b}$ antibodies; not suitable for use with mouse monoclonal IgG$_1$, IgG$_{2a}$, IgG$_3$, IgM, IgA or IgE antibodies. Not cross reactive with human, rat or goat IgG antibodies.

SOURCE

m-IgG$_{2b}$ BP-CFL 647 is a purified recombinant mouse IgG$_{2b}$ binding protein conjugated to CruzFluor™ 647 (CFL 647).

PRODUCT

Each vial contains 50 µg mouse IgG$_{2b}$ binding protein-CFL 647 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG$_{2b}$ BP-CFL 647 is recommended for detection of mouse IgG$_{2b}$ 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

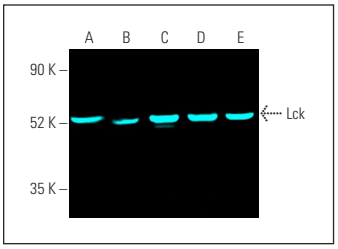
PROTOCOLS

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

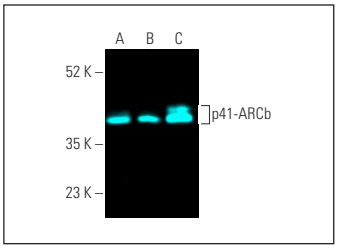
STORAGE

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

DATA



Lck (3A5): sc-433. Fluorescent western blot analysis of Lck expression in MOLT-4 (**A**), ALL-SIL (**B**), CCRF-CEM (**C**), Jurkat (**D**) and SUP-T1 (**E**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2b}$ BP-CFL 647: sc-542748.



p41-ARCb (C-3): sc-137125. Fluorescent western blot analysis of p41-ARCb expression in U-698-M (**A**) and PC-3 (**B**) whole cell lysates and human platelet extract (**C**). Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2b}$ BP-CFL 647: sc-542748.

RESEARCH USE

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

CRUZFLUOR™ SPECTRAL PROPERTIES

PRODUCT	CAT. #	EXCITATION MAXIMUM	EMISSION MAXIMUM
m-IgG$_{2a}$ BP-CFL 488 m-IgG$_{2b}$ BP-CFL 488	sc-542735 sc-542745	488 nm	514 nm
m-IgG$_{2a}$ BP-CFL 555 m-IgG$_{2b}$ BP-CFL 555	sc-542736 sc-542746	556 nm	569 nm
m-IgG$_{2a}$ BP-CFL 594 m-IgG$_{2b}$ BP-CFL 594	sc-542737 sc-542747	587 nm	603 nm
m-IgG$_{2a}$ BP-CFL 647 m-IgG$_{2b}$ BP-CFL 647	sc-542738 sc-542748	654 nm	669 nm
m-IgG$_{2a}$ BP-CFL 680 m-IgG$_{2b}$ BP-CFL 680	sc-542739 sc-542749	683 nm	700 nm
m-IgG$_{2a}$ BP-CFL 790 m-IgG$_{2b}$ BP-CFL 790	sc-542740 sc-542750	786 nm	811 nm

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