

# m-IgG<sub>2a</sub> BP-CFL 647: sc-542738

## BACKGROUND

Mouse IgG<sub>2a</sub> binding protein (m-IgG<sub>2a</sub> 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<sub>2a</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>2a</sub> binding protein (m-IgG<sub>2a</sub> BP) is suitable for binding to most, but not all mouse monoclonal IgG<sub>2a</sub> antibodies; not suitable for use with mouse monoclonal IgG<sub>1</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub>, IgM, IgA or IgE antibodies. Not cross reactive with human or rat IgG antibodies.

## SOURCE

m-IgG<sub>2a</sub> BP-CFL 647 is a purified recombinant mouse IgG<sub>2a</sub> binding protein conjugated to CruzFluor™ 647 (CFL 647).

## PRODUCT

Each vial contains 50 µg mouse IgG<sub>2a</sub> binding protein-CFL 647 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

## APPLICATIONS

m-IgG<sub>2a</sub> BP-CFL 647 is recommended for detection of mouse IgG<sub>2a</sub> 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<sup>6</sup> 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

## STORAGE

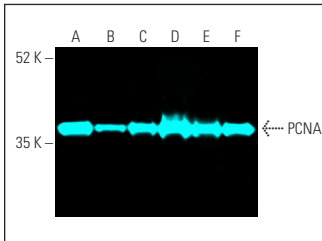
Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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

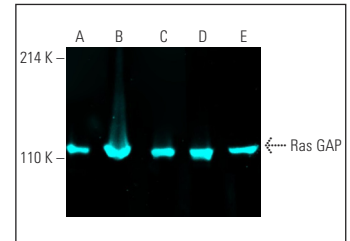
## RESEARCH USE

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

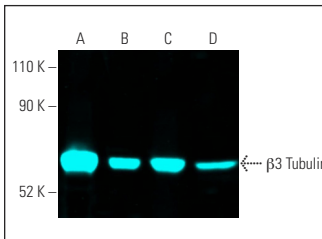
## DATA



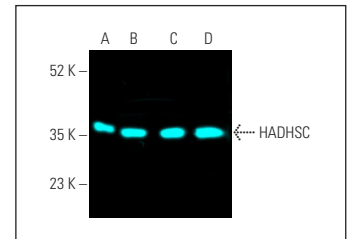
PCNA (PC10): sc-56. Fluorescent western blot analysis of PCNA expression in HCT-116 (A), Raji (B), HeLa (C), MOLT-4 (D), NIH/3T3 (E) and KNRK (F) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>2a</sub> BP-CFL 647: sc-542738.



Ras GAP (B4F8): sc-63. Fluorescent western blot analysis of Ras GAP expression in NIH/3T3 (A), KNRK (B), 3611-RF (C), C6 (D) and Neuro-2A (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>2a</sub> BP-CFL 647: sc-542738.



β3 Tubulin (AA10): sc-80016. Fluorescent western blot analysis of β3 Tubulin expression in SK-N-SH (A), BJAB (B), F9 (C) and PC-12 (D) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>2a</sub> BP-CFL 647: sc-542738.



HADHSC (A-5): sc-376525. Fluorescent western blot analysis of HADHSC expression in MCF7 (A), HEK293 (B), Hep G2 (C) and c4 (D) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG<sub>2a</sub> BP-CFL 647: sc-542738.

## CRUZFLUOR™ SPECTRAL PROPERTIES

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