SANTA CRUZ BIOTECHNOLOGY, INC.

m-IgG$_{2a}$ BP-CFL 555: sc-542736

BACKGROUND

Mouse IgG$_{2a}$ binding protein (m-IgG$_{2a}$ BP) conjugated to CruzFluor™ 555 (CFL 555) 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™ 555 (CFL 555) is an orange fluorescent dye that is an excellent substitute for AlexaFluor® 555, 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$_{2a}$ binding protein is a highly specific reagent that provides strong signal with minimal background and virtually complete elimination of lot to lot variation associ-ated with conventionally-generated secondary antibodies. Mouse IgG$_{2a}$ binding protein (m-IgG$_{2a}$ BP) is suitable for for binding to most, but not all mouse monoclonal IgG$_{2a}$ antibodies; not suitable for use with mouse monoclonal IgG$_1$, IgG$_{2b}$, IgG$_3$, IgM, IgA or IgE antibodies. Not cross reactive with human or rat IgG antibodies.

SOURCE

m-IgG$_{2a}$ BP-CFL 555 is a purified recombinant mouse IgG$_{2a}$ binding protein conjugated to CruzFluor™ 555 (CFL 555).

PRODUCT

Each vial contains 50 µg mouse IgG$_{2a}$ binding protein-CFL 555 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG$_{2a}$ BP-CFL 555 is recommended for detection of mouse IgG$_{2a}$ 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

STORAGE

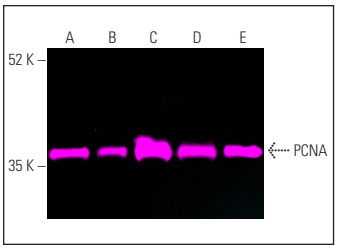
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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

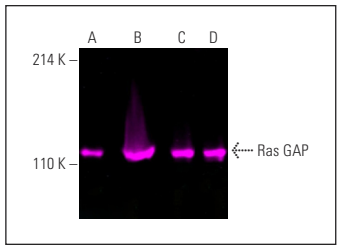
RESEARCH USE

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

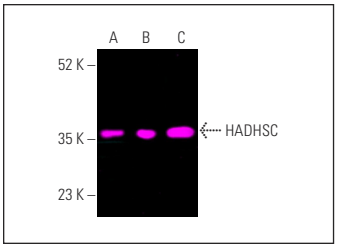
DATA



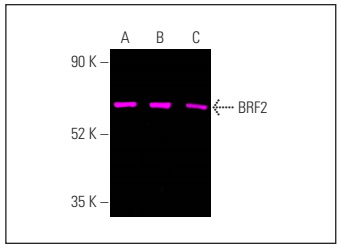
PCNA (PC10): sc-56. Fluorescent western blot analysis of PCNA expression in HCT-116 (**A**), HeLa (**B**), MOLT-4 (**C**), NIH/3T3 (**D**) and KNRK (**E**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2a}$ BP-CFL 555: sc-542736.



Ras GAP (B4F8): sc-63. Fluorescent western blot analysis of Ras GAP expression in NIH/3T3 (**A**), KNRK (**B**), 3611-RF (**C**) and C6 (**D**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2a}$ BP-CFL 555: sc-542736.



HADHSC (A-5): sc-376525. Fluorescent western blot analysis of HADHSC expression in HEK293 (**A**), Hep G2 (**B**) and c4 (**C**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2a}$ BP-CFL 555: sc-542736.



BRF2 (C-8): sc-390312. Fluorescent western blot analysis of BRF2 expression in DU 145 (**A**), Jurkat (**B**) and Neuro-2A (**C**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG$_{2a}$ BP-CFL 555: sc-542736.

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