

m-IgG_{2a} BP-CFL 488: sc-542735

BACKGROUND

Mouse IgG_{2a} binding protein (m-IgG_{2a} 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 AlexaFluor® 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_{2a} 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_{2a} binding protein (m-IgG_{2a} BP) is suitable for binding to most, but not all mouse monoclonal IgG_{2a} antibodies; not suitable for use with mouse monoclonal IgG₁, IgG_{2b}, IgG₃, IgM, IgA or IgE antibodies. Not cross reactive with human or rat IgG antibodies.

SOURCE

m-IgG_{2a} BP-CFL 488 is a purified recombinant mouse IgG_{2a} binding protein conjugated to CruzFluor™ 488 (CFL 488).

PRODUCT

Each vial contains 50 µg mouse IgG_{2a} binding protein-CFL 488 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgG_{2a} BP-CFL 488 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 10⁶ 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

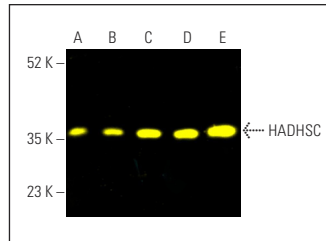
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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

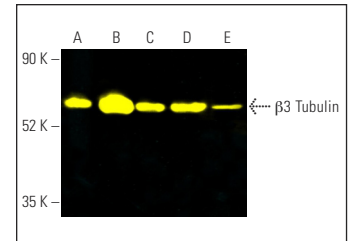
RESEARCH USE

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

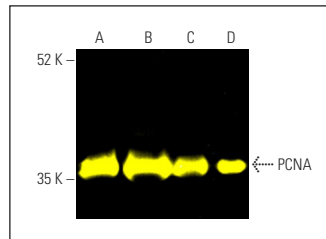
DATA



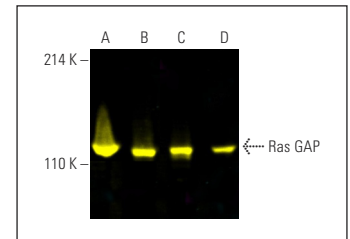
HADHSC (A-5): sc-376525. Fluorescent western blot analysis of HADHSC expression in Caki-1 (A), MCF7 (B), HEK293 (C), Hep G2 (D) and c4 (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG_{2a} BP-CFL 488: sc-542735.



β3 Tubulin (AA10): sc-80016. Fluorescent western blot analysis of β3 Tubulin expression in A2058 (A), SK-N-SH (B), BJAB (C), F9 (D) and PC-12 (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG_{2a} BP-CFL 488: sc-542735.



PCNA (PC10): sc-56. Fluorescent western blot analysis of PCNA expression in HCT-116 (A), MOLT-4 (B), NIH/3T3 (C) and KNRK (D) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG_{2a} BP-CFL 488: sc-542735.



Ras GAP (B4F8): sc-63. Fluorescent western blot analysis of Ras GAP expression in KNRK (A), 3611-RF (B), C6 (C) and Neuro-2A (D) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG_{2a} BP-CFL 488: sc-542735.

CRUZFLUOR™ SPECTRAL PROPERTIES

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