

m-IgGκ BP-CFL 647: sc-516179

BACKGROUND

Mouse IgGκ light chain binding protein (m-IgGκ BP) conjugated to CruzFluor™ 647 is a strongly recommended alternative to conventional anti-mouse IgG secondary antibodies for Western blotting (WB), immunofluorescence (IF) and flow cytometry (FCM) signal enhancement. Mouse IgGκ light chain binding protein is a highly specific detection reagent that provides strong signal with minimal background and virtually complete elimination of lot-to-lot variation associated with conventionally generated secondary antibodies. Mouse IgGκ light chain binding protein (m-IgGκ BP) is suitable for binding to mouse IgGκ light chain immunoglobulins, comprising a vast majority of mouse monoclonal primary antibodies; not suitable for use with mouse monoclonal IgGλ light chain primary antibodies. 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.

SOURCE

m-IgGκ BP-CFL 647 is a purified recombinant mouse IgGκ light chain binding protein conjugated to CruzFluor™ 647 (CFL 647).

PRODUCT

Each vial contains 200 µg mouse IgGκ binding protein-CFL 647 in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

m-IgGκ BP-CFL 647 is recommended for detection of mouse IgGκ light chain 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.

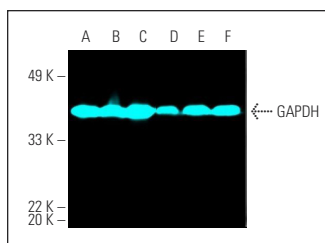
PROTOCOLS

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

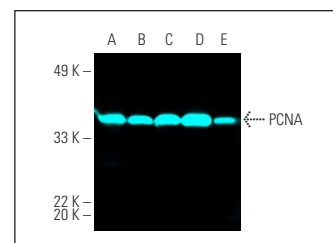
RESEARCH USE

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

DATA



GAPDH (0411): sc-47724. Fluorescent western blot analysis of GAPDH expression in MCF7 (A), HeLa (B), C32 (C), A-431 (D), Hep G2 (E) and BJAB (F) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 647: sc-516179.



PCNA (PC10): sc-56. Fluorescent western blot analysis of PCNA expression in HCT-116 (A), Raji (B), HeLa (C), MOLT-4 (D) and NIH/3T3 (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 647: sc-516179.

CRUZFLUOR™ SPECTRAL PROPERTIES

PRODUCT	CAT. #	EXCITATION MAXIMUM	EMISSION MAXIMUM
m-IgGκ BP-CFL 488	sc-516176	488 nm	514 nm
m-IgGλ BP-CFL 488	sc-516190		
m-IgGκ BP-CFL 555	sc-516177	556 nm	569 nm
m-IgGλ BP-CFL 555	sc-516191		
m-IgGκ BP-CFL 594	sc-516178	587 nm	603 nm
m-IgGλ BP-CFL 594	sc-516192		
m-IgGκ BP-CFL 647	sc-516179	654 nm	669 nm
m-IgGλ BP-CFL 647	sc-516193		
m-IgGκ BP-CFL 680	sc-516180	683 nm	700 nm
m-IgGλ BP-CFL 680	sc-516194		
m-IgGκ BP-CFL 790	sc-516181	786 nm	811 nm
m-IgGλ BP-CFL 790	sc-516195		

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