SBP Tag (SB19-C4): sc-101595

BACKGROUND

Streptavidin, a tetrameric protein purified from *Streptomyces avidinii*, binds very tightly to Biotin with a KD of 10-14 mol/L, forming one of the strongest known biological and noncovalent interactions. Each monomer of Streptavidin binds one molecule of Biotin. The strong Streptavidin-Biotin bond can be used to “glue” various chemicals onto surfaces and to link together molecules such as radioisotopes and monoclonal antibodies. Streptavidin is widely utilized in scientific laboratories, commonly for the purification of immunochemistries, and it is one of the most important components in diagnostic and laboratory kits. SBP Tag (Streptavidin binding protein Tag) is a 38 amino acid protein affinity sequence that binds to Streptavidin and can be used for the detection and purification of a variety of recombinant proteins.

REFERENCES


SOURCE

SBP Tag (SB19-C4) is a mouse monoclonal antibody raised against the streptavidin binding peptide.

PRODUCT

Each vial contains 200 μg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SBP Tag (SB19-C4) is available conjugated to agarose (sc-101595 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to either phycoerythrin (sc-101595 PE), fluorescein (sc-101595 FITC), Alexa Fluor® 488 (sc-101595 AF488), Alexa Fluor® 546 (sc-101595 AF546), Alexa Fluor® 594 (sc-101595 AF594) or Alexa Fluor® 647 (sc-101595 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-101595 AF680) or Alexa Fluor® 790 (sc-101595 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

SBP Tag (SB19-C4) is recommended for detection of SBP Tag by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG® BP-HRP: sc-516102 or m-IgG® BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunofluorescence: use m-IgG® BP-FITC: sc-516140 or m-IgG® BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

STORAGE

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

SELECT PRODUCT CITATIONS


RESEARCH USE

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

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