SANTA CRUZ BIOTECHNOLOGY, INC.

Streptavidin (S8E4): sc-52237

BACKGROUND

Streptavidin is a tetrameric protein purified from *Streptomyces avidinii* that binds very tightly to the vitamin biotin with 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. It is one of the most important components in diagnostics and laboratory kits.

REFERENCES

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SOURCE

Streptavidin (S8E4) is a mouse monoclonal antibody raised against recombinant Streptavidin of *Streptomyces avidinii* origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Streptavidin (S8E4) is recommended for detection of Streptavidin of *Streptomyces avidinii* origin Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:100), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells); permits the formation of antibody-Streptavidin complexes, thus enhancing the sensitivity of the detection system.

Molecular Weight of Streptavidin: 24 kDa.

RESEARCH USE

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

PROTOCOLS

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