Streptavidin Antibody

CPAB0529

Product Information

Size:

5µg

Applications:

Western Blot, ELISA

Reactivity:

Other bodies

Source:

Mouse

Isotype:

IgG2b

Purification Method:

Streptavidin antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.

Protein Background:

Streptavidin is a tetrameric protein secreted by Streptomyces avidinii which binds firmly to biotin. Streptavidin is wilyde used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (Kd) of the biotin-streptavidin complex is about ~10-15 mol/L. The strong affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits. The streptavidin/biotin system has one of the biggest free energies of association of yet observed for noncovalent binding of a protein and small ligand in aqueous solution (K_assoc = 10**14). The complexes are also extremely stable over a wide range of temperature and pH.

Synonyms:

Immunogen:

Anti Streptavidin mAb is derived from hybridization of mouse F myeloma cells with spleen cells from BALB/c mice immunized with recombinant Streptavidin amino acids 25-183 purified from Ecoli.

Storage:

For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.