

32-6225: Mouse Anti Streptavidin(Clone:P1C2AT.)

Clonality :	Monoclonal
Clone Name :	P1C2AT.
Application :	ELISA,WB
Format :	Purified
Isotype :	Mouse IgG2b heavy chain and ? light chain.
Immunogen Information :	Anti Streptavidin mAb is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant Streptavidin amino acids 25-183 purified from E. coli and corresponding to the below amino acid sequence: MVHHHHHHDP SKDSKAQVSA AEAGITGTWY NQLGSTFIVT AGADGALTGT YESAVGNAES RYVLTGRYDS APATDGSGTA LGWTVAWKNNYRNAHSATTW SGQYVGGAEA RINTQWLLTS GTTEANAWKS TLVGHDTFTK VKPSAASIDA AKKAGVNNGN PLDAVQQ.

Description

Streptavidin is a tetrameric protein secreted by *Streptomyces avidinii* which binds firmly to biotin. Streptavidin is widely used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (K_d) of the biotin-streptavidin complex is about $\sim 10^{-15}$ 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 ($K_{\text{assoc}} = 10^{14}$). The complexes are also extremely stable over a wide range of temperature and pH.

Product Info

Amount :	20 μ g
Purification :	Streptavidin antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

Streptavidin antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1,000 ~3,000. Recommended starting dilution is 1:2,000.