9051 Mira Mesa Blvd, #910094
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Streptavidin Antibody

Streptavidin, Mouse Antibody
ABM0644

Product Overview

Name	Streptavidin Antibody

Description

Streptavidin, Mouse Antibody

Introduction

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.

Source

Bacterium Streptomyces avidinii.

Physical Appearance

Sterile Filtered lyophilized powder.

Formulation

The Streptavidin was lyophilized from a 25mg/ml solution in 10 mM potassium phosphate buffer pH 6.5

Stability

Streptavidin although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. For longer storage in dissolved form add 1mM EDTA and/or 0.02 % NaN3 or pass the solution through a sterile filter. Please prevent freeze-thaw cycles.

Solubility

Gives a clear solution at 10mg/ml in 4.0 mM potassium phosphate pH 6.5

Specific Activity

The biological activity is 16.8 U/mg, 1 unit binds 1 µg biotin.

Precautions

Streptavidin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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