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Datasheet for ABIN964538

Streptavidin Protein (Alkaline Phosphatase (AP))

1 Image

Overview

Quantity:	1 mg
Target:	Streptavidin
Origin:	Streptomyces avidinii
Host:	Please inquire
Protein Type:	Native
Purification tag / Conjugate:	This Streptavidin protein is labelled with Alkaline Phosphatase (AP).
Application:	ELISA, Western Blotting (WB)

Product Details

Specificity: Streptavidin Alkaline Phosphatase was prepared from electrophoretically pure Streptavidin. Streptavidin Alkaline Phosphatase was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Alkaline Phosphatase (calf intestine) and anti-Streptavidin. No reaction was observed against anti-Avidin.

Target Details

Target:	Streptavidin
Abstract:	Streptavidin Products
Background:	Streptavidin is a bacterial protein (from <i>Streptomyces avidinii</i>) that has an exceptionally high binding affinity for biotin (B7). Streptavidin-biotin binding is one of the strongest known non-covalent interactions and is highly resistant to many conditions that would typically cause dissociation (such as organic solvents, denaturants, detergents, and extreme temperatures or pH). Streptavidin's affinity for biotin can be employed in a variety of experimental uses, from

Target Details

purifications to standards, to means of detection or pull down experiments. Alkaline Phosphatase is an enzyme which removes phosphate groups from a variety of substrate molecules. As the name implies, this enzyme functions best under basic pH. Alkaline Phosphatase can be utilized in molecular biology in DNA ligation experiments (keeping the DNA linear), radiolabeling preparations, and a detection mediator in ELISA experiments.

Synonyms: ALP, Alk Phos, SA ALP

UniProt: [P22629](#)

Application Details

Application Notes: Streptavidin Alkaline Phosphatase is a useful detection reagent for primary antibodies conjugated to biotin. Streptavidin Peroxidase can be utilized in both Western Blotting and ELISA experiment formats in combination with the proper substrate (NPP-10).

Comment: Streptavidin Alkaline Phosphatase is a useful detection reagent for primary antibodies conjugated to biotin. Streptavidin Peroxidase can be utilized in both Western Blotting and ELISA experiment formats in combination with the proper substrate (NPP-10).

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

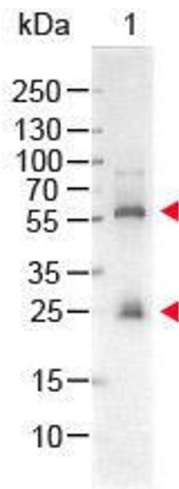
Buffer: 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol, pH 8.0, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Expiry Date: 12 months



Western Blotting

Image 1. Western Blot of STREPTAVIDIN ALKALINE PHOSPHATASE Conjugated Lane 1: Biotin conjugated Guinea Pig IgG Load: 50 ng per lane Secondary antibody: STREPTAVIDIN ALKALINE PHOSPHATASE Conjugated at 1:1,000 for 60 min at RT Block: ABIN925618 for 30 min at RT Predicted/Obsevered Size: 28 and 55 kDa/28 and 55 kDa for Guinea Pig IgG.