Streptavidin antibody

Catalog Number: AST0904

PRODUCT INFORMATION

Catalog number
AST0904

Clone No.
1C2

Product type
Monoclonal Antibody

UnitProt No.
P22629

NCBI Accession No.
CAA27265

Alternative Names
Streptavidin, Streptomyces avidinii streptavidin, SA V1, SA V2, Streptavidin V1, Streptavidin V2.

PRODUCT SPECIFICATION

Antibody Host
Mouse

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant Streptavidin (25-183aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB

Usage
The 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.

Storage
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

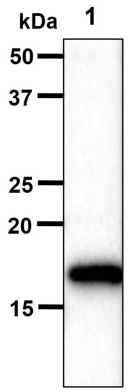
Streptavidin, a tetrameric protein secreted by Streptomyces avidinii, binds tightly to a small growth factor biotin. It finds wide use in molecular biology through its extraordinarily strong affinity for the vitamin biotin; the dissociation constant (kd) of the biotin-streptavidin complex is on the order of ~10-15 mol/L. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits.

General References

Mark Howarth, et al.(2006) Nature Methods. 3:267-73.
Holmberg A., et al. (2005) Electrophoresis. 26(3):501-10.

DATA

Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-Streptavidin antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Recombinant Streptavidin protein