

Streptavidin (HRP)

Cat. No. GTX27403

Applications

WB, IHC-P, IHC-Fr, Dot, ELISA, IM

References (2)

Package

500 µg

PRODUCT

Summary

Streptavidin is a tetrameric protein capable of binding 4 biotin groups to each molecule of streptavidin. While streptavidin has identical binding properties as avidin, it lacks the glycoprotein portion of the molecule and therefore shows less non-specific binding. Streptavidin is a slightly smaller molecule with a molecular weight of approximately 53.6 kDa. The sequence of avidin only shows 30% homology with streptavidin, and anti-avidin and anti-streptavidin antibodies are not immunologically cross reactive. Horseradish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution

Recommended dilution

WB	1:10,000-1:40,000
IHC-P	1:1,000-1:5,000
IHC-Fr	Assay dependent
Dot	Assay dependent
ELISA	1:20,000-1:200,000
IM	Assay dependent

Not tested in other applications.

Properties

Form	Liquid
Buffer	0.02M Potassium Phosphate (pH7.2), 0.15M Sodium Chloride
Preservative	No preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Purification	This product was prepared from chromatographically purified streptavidin. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Streptavidin. No reaction was observed against anti-Avidin.
Conjugation	Horseradish peroxidase(HRP)



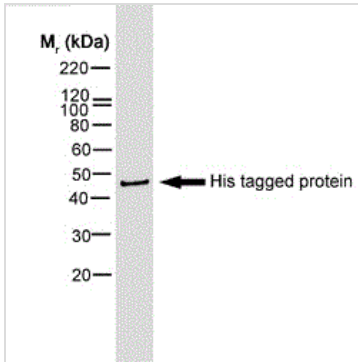
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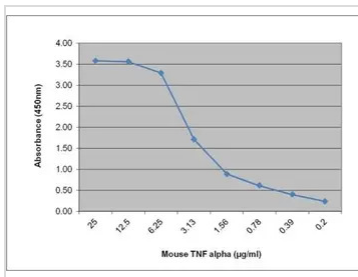
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Note

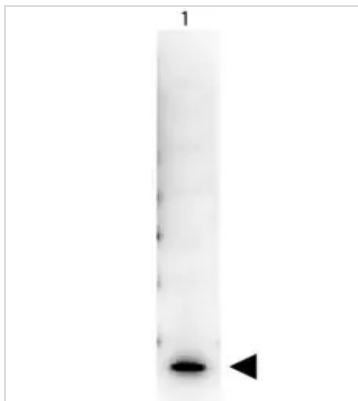
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DATA IMAGES

GTx27403 WB Image

Detection of Mouse anti histidine tag:biotin (GTx74967) in a Western blot analysis of a HIS tagged protein using Streptavidin:HRP (GTx27403)


GTx27403 ELISA Image

Detection of Rabbit anti Mouse TNFα:biotin (GTx74045) in a sandwich ELISA with recombinant murine TNFα as the antigen and Rat anti Mouse TNFα as the coating antibody using Streptavidin:HRP (GTx27403)


GTx27403 WB Image

WB analysis of human IL-7 protein using Human IL-7 Biotin conjugated antibody followed by GTx27403 Streptavidin (HRP).

Loading : 50 ng

Dilution : 1:1000



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