

Streptavidin (HRP)

Cat. No. GTX27403

Application WB, IHC-P, IHC-Fr, Dot, ELISA, IM[Reference \(2 \)](#)**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.

APPLICATION

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

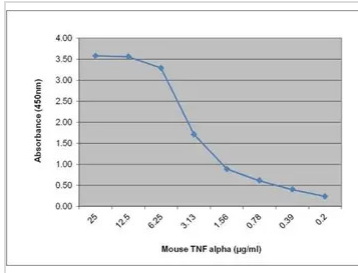
Form Liquid**Buffer** 0.02M Potassium Phosphate (pH7.2), 0.15M Sodium Chloride**Preservative** No preservative**Storage** Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.**Concentration** 1 mg/ml (Please refer to the vial label for the specific concentration.)**Expression System** Streptomyces avidinii**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)

For full product information, images and publications, please visit our [website](#).

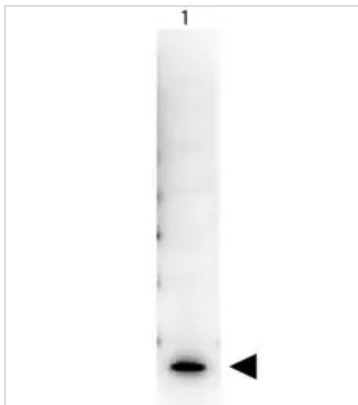
For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Note

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

GTx27403 ELISA Image

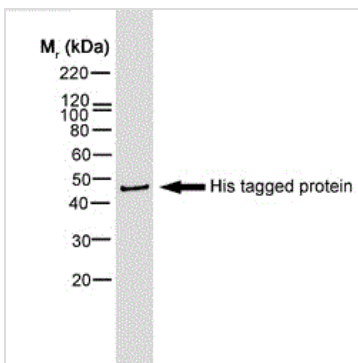
Detection of Rabbit anti Mouse TNF α :biotin (GTx74045) in a sandwich ELISA with recombinant murine TNF α as the antigen and Rat anti Mouse TNF α as the coating antibody using Streptavidin:HRP (GTx27403)


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


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)



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