

FT-LI3682

The banner features a woman's profile blowing dandelion seeds against a blue background with glowing particles. Overlaid are several chemical structures: a benzene ring with a chlorine atom, a substituted benzene ring with a double bond, and a molecule with a chlorine atom and a methyl group. Below the image, the word "interchim" is written in large white letters with a registered trademark symbol. A red bar at the bottom contains the text: "INTERFINE CHEMICALS", "ANALYTICAL SCIENCES", "BIOCHROMATOGRAPHY", and "LIFE SCIENCES". Contact information is also present: +33 4 70 03 73 06 and interbiotech@interchim.com.

Streptavidin-Peroxidase

Product Description

Catalog #:	LI3682 1mg
Name:	Streptavidin-Horseradish Peroxidase (HRP)
Purity:	>99% pure by HPLC; Eletrophoretically homogenous, single band.
Protein content:	> 95%; Activity 14.8 units/ mg, one unit bonds 1.0 microgram of d-biotin
Protease activity:	0.000018 units/mg
Isoelectric point:	7.0 +/- determined by Isoelectric focusing
Presentation :	The conjugate is supplied in one ml of 10 mM PO4, 200 mM NaCl, pH 7.5, BSA 10 mg/ml and 0.05% Proclin 300.
Storage:	2-8°C

For Research Use Only

Introduction

Streptavidin is a 55 kDa (subunit MW 14 kDa) biotin-binding protein isolated from Streptomyces avidini. Streptavidin is superior to avidin, because it does not contain carbohydrate like avidin and has no net charge at neutral pH. Streptavidin~biotin system is routinely used in Immunohistochemistry (IHC). Extinction Coefficient 1% A280=32.0.

Peroxidase used for conjugation is 44 kDa glycoprotein isolated from horseradish roots. The Rz (Reinhetszahl), absorbance ratio of A403/A275 is ~3.0. One mg of Streptavidin is conjugated with peroxidase, in equimolar ratio.

Unconjugated Streptavidin is removed.

Directions for use

Guidelines for use

Application

ELISA	1:10,000-1:50,000 (20-100 ng/ml);
IHC	1:200-1:1,000 (1-5 µg/ml);
WB (ECL)	1:10,000-1:100,000 (10-100 ng/ml);
WB (chromogen)	1:500-1:5,000 (0.1-2 µg/ml).

The optimum dilution should be determined by the individual investigator.

LIFE SCIENCES

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 **interchim**

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Dilution

This product can be diluted in our Universal antibody dilution buffer (cat. # DU467) or PBS with 0.5-1% BSA.

CAUTION: PEROXIDASE REAGENTS ARE DESTROYED BY SODIUM AZIDE; THEREFORE IT SHOULD BE AVOIDED IN ALL BUFFERS AND REAGENTS.

The reaction mixture should be discarded according to city, county, state, province or country's regulations.

References

- **Bahri R.** et al., Dendritic Cells Secrete the Immunosuppressive HLA-G Molecule upon CTLA4-Ig Treatment: Implication in Human Renal Transplant Acceptance, *J. Immunol.*, **183**: 7054 - 7062 (2009) [Article](#)
- **Bourdon J.** et al., Hepatic and Pulmonary Toxicogenomic Profiles in Mice Intratracheally Instilled With Carbon Black Nanoparticles Reveal Pulmonary Inflammation, Acute Phase Response, and Alterations in Lipid Homeostasis, *Toxicol. Sci.*, **127**: 474 - 484 (2012) [Article](#)
- **Furio L.** et al., Transgenic kallikrein 5 mice reproduce major cutaneous and systemic hallmarks of Netherton syndrome, *J. Exp. Med.*, **211**: 499 - 513 (2014) <http://jem.rupress.org/content/211/3/499.full.pdf+html>
- **Nigou J.** et al., Mannosylated Lipoarabinomannans Inhibit IL-12 Production by Human Dendritic Cells: Evidence for a Negative Signal Delivered Through the Mannose Receptor, *J. Immunol.*, **166**: 7477 - 7485 (2001) [Article](#)
- **Ravanat C.** et al., Gene Cloning of Rat and Mouse Platelet Glycoprotein V: Identification of Megakaryocyte-Specific Promoters and Demonstration of Functional Thrombin Cleavage, *Blood*, **89**: 3253 - 3262 (1997) [Article](#)

Related products

- Universal antibody dilution buffer, [DU4670](#)
- TMB ELISA Peroxidase Substrate, [UP664780](#)
- Stop Solution for TMB in ELISA, [UPS29590](#)
- ADHP, [FP-39423A](#)
- Near Infrared fluorogenic peroxidase substrate, [JQ6581](#)
- CF488A azide, IWT530
- CF594 azide, IWT560

Other Information

For in vitro R&D use only

Please contact InterBioTech – Interchim for any other information