



Streptavidin-HRP

Summary

Code	067-101-005
Concentration	1mg/mL
Buffer	PBS PH=7.5, 10mg/ml BSA, 100mM trehalose, 50% glycerol
Storage	Store at -20 °C, Protect from light

Description

Streptavidin-HRP is coupled streptavidin with horseradish peroxidase (HRP). Streptavidin-HRP is highly sensitive to binds biotinylated proteins in enzyme immunoassay, immunoblotting, immunohistochemistry, flow cytometry systems.

Background

Streptavidin is a 53 kDa protein isolated from *Streptomyces avidinii*. Streptavidin has a molecular weight of 60 KD and contains 4 subunits. Each subunit can bind one molecule of biotin. Streptavidin has strong binding properties to avidin ($K_d=10-15$). Because of its strong non-covalent interaction with biotin, streptavidin can be used to detect and isolate biotinylated proteins. Streptavidin-HRP is coupled streptavidin with horseradish peroxidase (HRP), and it have a very high turnover rate, coupling high sensitivity with short reaction times.

Suggested Working Concentration

ELISA	1:10,000-1:50,000
WB	1:10,000-1:50,000

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical