

# Anti-Strep-tag II, AlpHcAbs<sup>®</sup> Rabbit antibody

## Summary

Code	062-203-001
Immunogen	Strep-tag II fusion protein
Host	Alpaca pacous
Isotype	Fab region of alpaca IgG1 fused to Rabbit Fc(mutation)
Conjugate	Unconjugated
Specificity	Strep-tag II sequence(WSHPQFEK)
Cross-Reactivity	Highly selective for Strep-tag II sequence
Purity	Recombinant Expression and Affinity purified
Concentration	1mg/ml
Formation	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
Storage	Store at -20 °C, (Avoid freeze / thaw cycles), Stable for 12 months at -20°C

## Description

Anti-Strep-tag II, AlpHcAbs<sup>®</sup> Rabbit antibody is designed for detecting Strep-tag II fusion protein specifically. Anti-Strep-tag II, AlpHcAbs<sup>®</sup> Rabbit antibody is recombinant fab of alpaca IgG1 fused to rabbit IgG Fc. Based on western blot and ELISA, Anti-Strep-tag II, AlpHcAbs<sup>®</sup> Rabbit antibody reacts with the Strep-tag II sequence selectively, no reactivity with other proteins.

## Background

Streptavidin is a tetrameric protein purified from *Streptomyces avidinii*. It has wide use in numerous molecular biological protocols due to its strong affinity for biotin. The original Strep-tag(AWRHPQFGG) was a nine amino acid peptide with high specificity and affinity towards streptavidin which allows the simple purification of protein by use of affinity columns, but required addition to only the C-terminus of recombinant proteins. To also allow a Strep-tag to be placed at the N-terminus of recombinant proteins, it was re-engineered and re-named Strep-tag II(WSHPQFEK).

Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

## Benefits

High lot-to-lot consistency  
 Increased sensitivity and higher affinity  
 Animal-free production

## Suggested Working Concentration

ELISA	1:10,000-1:50,000
WB	1:10,000-1:50,000
ICC/IF	1:200-1:1000
IP	2ug/sample
Flow Cyt	1:200-1:2000

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