



Anti-Strep-tag II, AlpHcAbs[®] Rabbit antibody (Biotin)

Summary

Code	062-203-004
Immunogen	Strep-tag II fusion protein
Host	Alpaca pacous
Isotype	Fab region of alpaca IgG1 fused to Rabbit Fc(mutation)
Conjugate	Biotin
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
Storage	Store at -20 °C, (Avoid freeze / thaw cycles)

Description

Anti-Strep-tag II, AlpHcAbs[®] Rabbit antibody(Biotin) is designed for detecting Strep-tag II fusion proteins specifically. Anti-Strep-tag II, AlpHcAbs[®] Rabbit antibody(Biotin) is based on monoclonal, recombinant, rabbit Fc fused Fab of alpaca IgG1 antibody to Strep-tag II coupled to Biotin, and Anti-Strep-tag II, AlpHcAbs[®] Rabbit antibody(Biotin) detects the Strep-tag II 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	1:5000-1:20000
WB	1:5000-1:20000
IP	2ug/sample

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