Anti-V5 tag, AlpHcAbs® Mouse IgG1 antibody

Summary

Code	064-301-001
Immunogen	V5 tag fusion protein
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to Mouse IgG1 Fc(mutation)
Conjugate	Unconjugated
Specificity	V5 tag sequence(GKPIPNPLLGLDST)
Cross-Reactivity	Highly selective for V5 tag 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-V5 tag, AlpHcAbs® Mouse IgG1 antibody is designed for detecting V5 tag fusion protein specifically. Anti-V5 tag, AlpHcAbs® Mouse IgG1 antibody is monovalent, recombinant single domain antibody fused to Mouse IgG1 Fc. Based on western blot and ELISA, Anti-V5 tag, AlpHcAbs® Mouse IgG1 antibody reacts with the V5 tag sequence(GKPIPNPLLGLDST) selectively, no reactivity with other proteins.

Background

The V5 tag is a 14 amino acid peptide derived from a small epitope on the P and V proteins of simian virus 5 (SV5), a member of the paramyxovirus family. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion. Because of its small size, V5 tag is unlikely to affect the tagged protein's biochemical properties. V5 tag is useful for the labeling and detection of proteins using immunoblotting, immuno-precipitation, and immunostaining techniques.
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
Flow Cyt	1μg for 10^6 cells
ICC/IF	1:200-1:1000
IP	1-2ug/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.