

Anti-V5 tag, AlpSdAbs® VHH(Biotin)

Summary

| | |
|------------------|--|
| Code | 064-101-004 |
| Immunogen | V5 tag fusion protein |
| Host | Alpaca pacous |
| Isotype | VHH domain of alpaca IgG2b/2c |
| Conjugate | Biotin |
| Specificity | V5 tag sequence(GKPIPPELLGLDST) |
| 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 |
| Storage | Store at -20 °C(Avoid freeze / thaw cycles) |

Description

Anti-V5 tag, AlpSdAbs® VHH(Biotin) is designed for detecting V5 tag fusion proteins. Anti-V5 tag, AlpSdAbs® VHH(Biotin) is based on monoclonal, recombinant, single domain antibody to V5 tag coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-V5 tag, AlpSdAbs® VHH(Biotin) detects the V5 tag 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, immunoprecipitation, and immunostaining techniques.

VHH are single-domain antibodies derived from the variable regions of heavy chain of Camelidae immunoglobulin. The size of VHH is extremely small(<15KDa) compared to other forms of antibody fragment, which significantly increase the permeability of VHH. Thus VHH is considered of great value for research, diagnostics and therapeutics.

Benefits

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

Suggested Working Concentration

| | |
|-------|-----------------|
| ELISA | 1:5,000-1:20000 |
| WB | 1:5,000-1:20000 |
| IP | 1-2ug/sample |

BLI (biolayer interferometry)
SPR (surface plasmon resonance)

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