



Anti-MBP, AlpSdAbs[®] VHH(Biotin)

Summary

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| Code | 015-101-004 |
| Immunogen | MBP fusion protein |
| Host | Alpaca pacous |
| Isotype | VHH domain of alpaca IgG2b/2c fused to Rabbit IgG Fc(mutation) |
| Conjugate | Biotin |
| Specificity | MBP |
| Cross-Reactivity | Recognizes MBP specifically. Does not cross-react with other proteins. |
| 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-MBP, AlpSdAbs[®] VHH(Biotin) is designed for detecting MBP fusion proteins. Anti-MBP, AlpSdAbs[®] VHH(Biotin) is based on monoclonal, recombinant, single domain antibody to MBP coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-MBP, AlpSdAbs[®] VHH(Biotin) detects the MBP selectively, no reactivity with other proteins.

Background

MBP is used to increase the solubility of recombinant proteins expressed in *E. coli*. In these systems, the protein of interest is often expressed as a MBP-fusion protein, preventing aggregation of the protein of interest. The mechanism by which MBP increases solubility is not well understood. In addition, MBP can itself be used as an affinity tag for purification of recombinant proteins.

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

Application notes

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|-------|-----------------|
| WB | 1:5,000-1:20000 |
| ELISA | 1:5,000-1:20000 |
| IP | 1:100-1:500 |

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