



Anti-TagFP, AlpSdAbs® VHH

Summary

Code 017-103-001

Immunogen TagFP fusion protein
Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c

Conjugate Unconjugated(6*his tag and one cys were added at the C terminal of the VHH)

Specificity TagFP(TagRFP/TagBFP)

Cross-Reactivity Highly selective for TagRFP/TagBFP. Does not cross-react with common GFP or dsRed derivatives

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-TagFP, AlpSdAbs® VHH is designed for detecting TagFP fusion proteins specifically. Anti-TagFP, AlpSdAbs® VHH is based on monoclonal, recombinant, single domain antibody derived from the variable regions of heavy chain of Alpaca pacous. Based on immunoelectrophoresis and/or ELISA, Anti-TagFP, AlpSdAbs® VHH detects the TagFP selectively, no reactivity with other proteins.

Background

TagRFP is derived from the Entacmaea quadricolor fluorescent protein TurboRFP (a random mutant of eqFP578), with mutations of R162E, Q166D, S180N, F198V, F200Y at the hydrophilic interface. TagBFP was derived from TagRFP with the some mutations. TagRFP/TagBFP has a high fluorescent quantum yield (Φ fluo 0.48) and is widely used for fluorescent imaging. For biochemical analysis including mass spectrometry and enzymeactivity measurements.

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 1:5,000-1:20,000 WB 1:5,000-1:20000 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.

This product is for research use only and is not approved for use in humans or in clinical

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