

Anti-TagFP, AlpHcAbs[®] Rabbit antibody(Biotin)

Summary

Code	017-203-004
Immunogen	TagFP
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to Rabbit IgG Fc(mutation)
Conjugate	Biotin
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, AlpHcAbs[®] Rabbit antibody(Biotin) is designed for detecting TagFP fusion proteins specifically. Anti-TagFP, AlpHcAbs[®] Rabbit antibody(Biotin) is based on monoclonal, recombinant, rabbit Fc fused single domain antibody to TagFP coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-TagFP, AlpHcAbs[®] Rabbit antibody(Biotin) detects TagFP fusion proteins 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_{flu} 0.48) and is widely used for fluorescent imaging. For biochemical analysis including mass spectrometry and enzyme activity measurements.

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	1:5,000-1:20000
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