

# Anti-TagFP, AlpHcAbs<sup>®</sup> Rabbit antibody

## Summary

<b>Code</b>	017-203-001
<b>Immunogen</b>	TagFP
<b>Host</b>	Alpaca pacous
<b>Isotype</b>	VHH domain of alpaca IgG2b/2c fused to Rabbit IgG Fc(mutation)
<b>Conjugate</b>	Unconjugated
<b>Specificity</b>	TagFP(TagRFP/TagBFP)
<b>Cross-Reactivity</b>	Highly selective for TagRFP/TagBFP. Does not cross-react with common GFP or dsRed derivatives
<b>Purity</b>	Recombinant Expression and Affinity purified
<b>Concentration</b>	1mg/ml
<b>Formation</b>	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
<b>Storage</b>	Store at -20 °C(Avoid freeze / thaw cycles)

## Description

Anti-TagFP, AlpHcAbs<sup>®</sup> Rabbit antibody is designed for detecting TagFP fusion protein specifically. Anti-TagFP, AlpHcAbs<sup>®</sup> Rabbit antibody is monovalent, recombinant single domain antibody fused to rabbit IgG Fc. Based on immunoelectrophoresis and/or ELISA, Anti-TagFP, AlpHcAbs<sup>®</sup> Rabbit antibody is useful for detecting TagFP fusion proteins with high sensitivity.

## 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 ( $\Phi_{fluor}$  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

<b>ELISA</b>	1:5,000-1:20000
<b>WB</b>	1:5,000-1:20000
<b>ICC/IF</b>	1:200-1:1000
<b>Flow Cyt</b>	1:200-1:1000
<b>IP</b>	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