

# Anti-RFP, AlpSdAbs<sup>®</sup> VHH(iFluor647)

## Summary

Code	020-101-009
Immunogen	RFP
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	iFluor647(Ex:651nm, Em:667nm)
Specificity	RFP
Cross-Reactivity	Recognizes mCherry, mRFP, mRFPruby, mPlum, tagRFP, mKate2 and many more RFP 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, 50% Glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), protect from light

## Description

Anti-RFP, AlpSdAbs<sup>®</sup> VHH(iFluor647) is designed for detecting RFP fusion proteins. Anti-RFP, AlpSdAbs<sup>®</sup> VHH(iFluor647) is based on monoclonal, recombinant, single domain antibody to RFP coupled to iFluor647. Based on immunoelectrophoresis and/or ELISA, Anti-RFP, AlpSdAbs<sup>®</sup> VHH(iFluor647) detects the RFP selectively, no reactivity with other proteins.

## Background

Red fluorescent proteins (RFPs) and variants thereof are widely used to study protein localization and dynamics. RFP can be excited by the 488 nm or 532 nm laser line and is optimally detected at 588 nm.

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

ELISA	1:5000 -1:20000
Flow Cyt	1:200-1:2000
ICC/IF	1:200-1:2000

Super-resolution microscopy

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