For Research Use Only

anti-RFP recombinant VHH, unconjugated

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Catalog Number: rt

7 Publications

Basic Information

Catalog Number:
rt

Applications:
Suitable for conjugation of dyes, biotin, beads, surfaces etc. via NHS ester reaction

Host:
Alpaca

Conjugate:
Unconjugated

Type :
Nanobody

Class:
Recombinant

RRID:
AB_2631365

Molecular Weight:
14.9 kDa

Description

Alpaca anti-RFP VHH, purified recombinant binding protein

Specificity/Target

mCherry, mRFP, mRFPRuby, TagRFP, mKate2, mPlum, mApple, DsRed, tdTomato
For the complete list, please click here: Fluorescent protein specificity table

Affinity (K_D)

Dissociation constant K_D of 5 nM

Background

Red fluorescent proteins (RFPs) is a collective term referring to a heterogenous group of red chromophore-carrying proteins, originating from various species and forming different protein lineages.
The original RFP (dsRed) is a 225 amino acid fluorescent protein (25.9 kDa) derived from Discosoma sp.. It emits red light with a peak wavelength of 593 nm upon excitation by green light (excitation peak at 558 nm).
When fused with other proteins, RFP serves as a versatile reporter protein e.g. for quantifying expression levels or facilitates visualization of subcellular localization through fluorescence microscopy.
This Nanobody is an alpaca recombinant VHH raised against RFP, reactive to a variety of RFP derivates, including mCherry, mRFP, mRFPRuby, TagRFP, mKate2, mPlum, mApple, DsRed, and tdTomato.

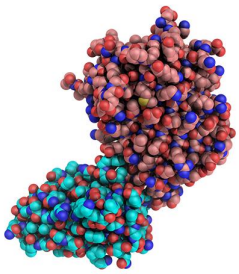
Storage

Storage:
Shipped at ambient temperature. Upon receipt store at 4°C; stable for one year. Do not freeze.

Storage Buffer:
25mM TAPS pH 8.5, 137 mM NaCl, 5 mM EDTA, preservative: 0.09 % sodium azide

For technical support and original validation data for this product please contact
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

Selected Validation Data



Structure of RFP-VHH.