For Research Use Only

anti-GFP recombinant VHH, unconjugated

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Catalog Number: gt

36 Publications

Basic Information

Catalog Number:
gt

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

Host:
Alpaca

Conjugate:
Unconjugated

Type :
Nanobody

Class:
Recombinant

RRID:
AB_2631361

Molecular Weight:
13.9 kDa

Description

Alpaca anti-GFP VHH, purified recombinant binding protein

Specificity/Target

CFP, eGFP, wtGFP, GFP S65T, AcGFP, TagGFP, tagGFP2, sfGFP, pHluorin, eYFP, YFP, Venus, Citrine

Affinity (K_D)

Dissociation constant K_D of 1 pM

Background

Green Fluorescent Proteins (GFPs) encompass a diverse range of proteins carrying a green chromophore, originating from various species and forming different protein lineages. Wildtype GFP consists of 238 amino acid residues (26.9 kDa). GFP was first identified in the jellyfish Aequorea victoria. It emits green light with a peak wavelength of 509 nm upon excitation by blue light at 395 nm.
When fused with other proteins, GFP 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 GFP, reactive to a variety of GFP derivates, including CFP, eGFP, yeast eGFP, Clover, wtGFP, GFP S65T, AcGFP, TagGFP, tagGFP2, sfGFP, pHluorin, eYFP, YFP, Venus, YPET, Citrine and eCitrine and more.
For a full list of specificities see: Fluorescent_Specificity_by_Nano-Trap_190222.pdf (ptglab.com)

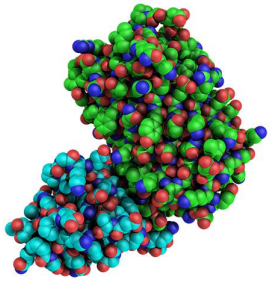
Storage

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, 500 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 GFP-VHH.