For Research Use Only

anti-CD4 recombinant VHH, for 2x Cys conjugation

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Catalog Number: MG-1229CC

Basic Information

Catalog Number:
MG-1229CC

Type:
Nanobody

Applications:
Conjugation

Class:
Recombinant

Host:
Alpaca

RRID:
/

Conjugate:
Unconjugated

Molecular Weight:
14.8 kDa

Description

The small size of VHHs (~15 kDa) enables access to epitopes that may be sterically inaccessible to full size IgGs. Their reduced steric hindrance also facilitates simultaneous staining of multiple targets, making them particularly useful for applications like Nano-Flow. MG-1229CC is an unconjugated recombinant anti-CD4 Nanobody (VHH). Suitable for for dual cysteine conjugation with thiol-reactive reagents, e.g. maleimides. Note: unconjugated VHHs are not suited for usage without prior labeling, since they contain reactive Cysteines. Shipment and storage buffers contain TCEP to keep Cysteines reduced.

Affinity

17 nM

Background

CD4 is a 55-kDa transmembrane glycoprotein expressed on T helper cells, majority of thymocytes, monocytes, macrophages, and dendritic cells (PMID: 9304802; 12213222). CD4 is an accessory protein for MHC class-II antigen/T-cell receptor interaction. It plays an important role in T helper cell development and activation (PMID: 9539765; 3112582). CD4 serves as a receptor for the human immunodeficiency virus (HIV) (PMID: 9304802).

Storage

Storage:
Store at -20°C

Storage Buffer:
10 mM HEPES pH 7.0, 500 mM NaCl, 0.09% sodium azide, 1mM TCEP

For technical support and original validation data for this product please contact:

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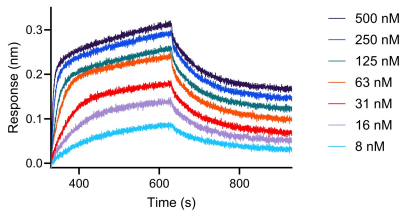
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Affinity Data
 BLI analysis of the interaction between varying concentrations of anti-CD4 recombinant VHH (MG-1229CC, Clone: CTK0242) and immobilized, biotinylated CD4 protein.