For Research Use Only

anti-CD16 recombinant VHH, for 2x Cys conjugation

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Catalog Number: CD16Cys2

Basic Information

Catalog Number:
CD16Cys2

Applications:
Conjugation

Host:
Alpaca

Conjugate:
Unconjugated

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3665401

Molecular Weight:
15.6 kDa

Description

CD16Cys2 is an unconjugated recombinant anti CD16 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

2 nM for CD16A, 4 nM for CD16B

Background

CD16 is a 50-70-kDa low affinity Fc receptor found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16 mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. CD16 has been identified as Fc receptors Fc γ RIIIa (CD16a) and Fc γ RIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B.

Storage

Storage:
Store at -20°C

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

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

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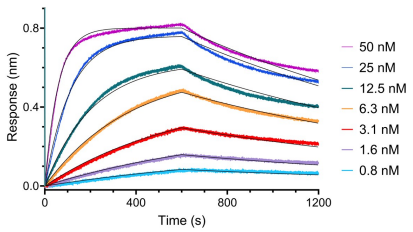
Selected Validation Data



BLI analysis of the interaction between varying concentrations of anti-CD16 VHH and immobilised, biotinylated CD16A. Fit indicates fitting of data to a 1:1 binding model. Binding curves are similar for CD16B.