

For Research Use Only

anti-CD16 recombinant VHH, FITC Plus



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Catalog Number: FITC-CD16

Basic Information

Catalog Number:

FITC-CD16

Applications:

IF, FC

Host:

Alpaca

Conjugate:

FITC Plus

Type:

Nanobody

Class:

Recombinant

RRID:

AB_3665974

Molecular Weight:

15.6 kDa

Description

FITC-CD16 is a recombinant FITC Plus conjugated anti CD16 Nanobody (VHH) that targets CD16 in IF and FC applications, showing reactivity with human samples.

Affinity

2 nM for CD16A, 4 nM for CD16B

Excitation/Emission Maxima Wavelengths

500 nm / 520 nm

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 FcγRIIIa (CD16a) and FcγRIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B.

Storage

Storage:

Store at -20°C

Storage Buffer:

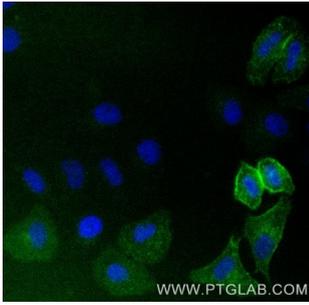
10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, 0.09% sodium azide

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

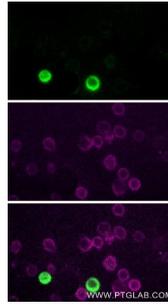
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

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

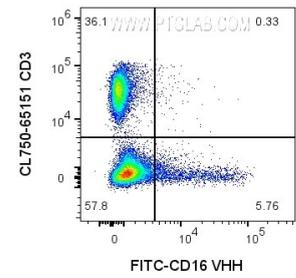
Selected Validation Data



HeLa cells transiently transfected with human CD16 were immunostained with anti-CD16 VHH-FITC (code, 1:500, green). Nuclei were stained with DAPI (blue). Epifluorescence images were acquired with a 20x objective and post-processed. Note: Immunostaining with anti-CD16-VHH-Dye can be performed live or after formaldehyde fixation.



Live human PBMCs were gravity-sedimented and immunostained with anti-CD16 recombinant VHH, FITC Plus (FITC-CD16, green) and anti-CD3 IgG-CL555 (CL555-65151, magenta). Images were acquired with a 20x objective and post-processed. Dead cells (autofluorescent in all channels including UV and far-red) we subtracted from all channels with ImageJ. Note: Immunostaining with FITC-CD16 can be performed live or after formaldehyde fixation.



1×10^6 human PBMCs were surface stained with 0.25ug FITC Plus conjugated CD16 VHH (FITC-CD16) and CL750 CD3 (CL750-65151). Cells were not fixed. Cells were treated with FC Receptor Block prior to staining. Lymphocytes and monocytes were gated.