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# anti-CD16 recombinant VHH, CoraLite® Plus 647



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Catalog Number: CL647-CD16

## Basic Information

**Catalog Number:**  
CL647-CD16

**Applications:**  
IF, FC

**Host:**  
Alpaca

**Conjugate:**  
CoraLite® Plus 647

**Type:**  
Nanobody

**Class:**  
Recombinant

**RRID:**  
AB\_3665404

**Molecular Weight:**  
15.6 kDa

## Description

CL647-CD16 is a recombinant CoraLite® Plus 647 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

654 nm / 674 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 Fc $\gamma$ RIIIa (CD16a) and Fc $\gamma$ 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, 5 mM EDTA, 0.09% sodium azide

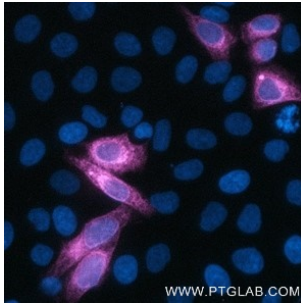
For technical support and original validation data for this product please contact:

T: 4006900926

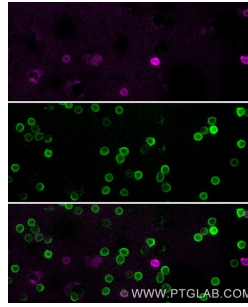
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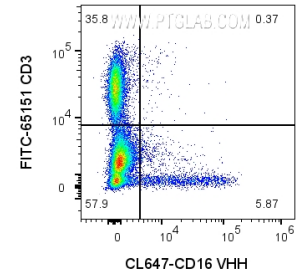
## Selected Validation Data



HeLa cells transiently transfected with human CD16 were immunostained with anti-CD16 recombinant VHH, Coralite® Plus 647 (CL647-CD16, 1:500, magenta). Nuclei were stained with DAPI (blue). Epifluorescence images were acquired with a 20x objective and post-processed. Note: Immunostaining with CL647-CD16 can be performed live or after formaldehyde fixation.



Live human PBMCs were gravity-sedimented and immunostained with anti-CD16 recombinant VHH, Coralite® Plus 647 (CL647-CD16, magenta) and anti-CD3 IgG-CL488 (CL488-65151, green). Images were acquired with a 20x objective and post-processed. Dead cells (autofluorescent in all channels including UV and far-red) were subtracted from all channels with ImageJ. Note: Immunostaining with CL647-CD16 can be performed live or after formaldehyde fixation.



$1 \times 10^6$  human PBMCs were surface stained with 0.25  $\mu$ g Coralite® Plus 647 conjugated CD16 VHH (CL647-CD16) and FITC CD3 (FITC-65151). Cells were not fixed. Cells were treated with FC Receptor Block prior to staining. Lymphocytes and monocytes were gated.