

Catalog Number: MG-1230FITC

Basic Information

Catalog Number:
MG-1230FITC**Applications:**
FC**Host:**
Alpaca**Conjugate:**
FITC Plus**Type:**

Nanobody

Class:

Recombinant

RRID:

/

Molecular Weight:

15.7 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-1230FITC is a recombinant FITC conjugated anti CD33 Nanobody (VHH) that targets CD33 (human).

Affinity

270 nM

Excitation/Emission Maxima Wavelengths

500 nm / 520 nm

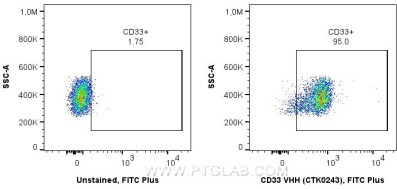
Background

CD33, also referred to as Siglec-3, is a 67-kDa glycosylated transmembrane protein of sialic acid-binding immunoglobulin-like lectin (siglec) family. CD33 is expressed on monocytes, myeloid progenitors, granulocytes, mast cells, some T cells. It may mediate cell-to-cell adhesion and act as a receptor that inhibits the proliferation of normal and leukemic myeloid cells.

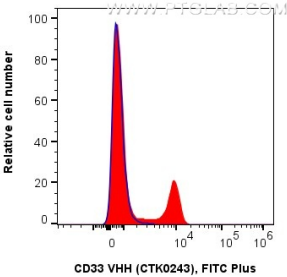
Storage

Storage:
Store at -20°C**Storage Buffer:**
10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, 0.09% sodium azide

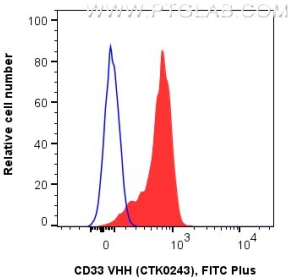
Selected Validation Data



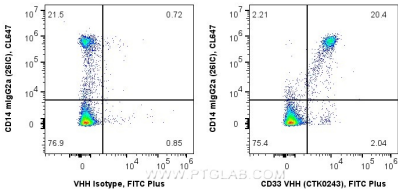
Human PBMCs stained with anti-CD33 recombinant VHH in Flow Cytometry
1x10⁶ human PBMCs were surface stained in 100 µL with 1 µg anti-CD33 recombinant VHH, FITC Plus (MG-1230FITC, Clone: CTK0243) or unstained. Fc-receptors were blocked. Cells were not fixed. Monocytes were gated.



Human PBMCs co-stained with anti-CD33 recombinant VHH and anti-CD14 261C in Flow Cytometry
1x10⁶ human PBMCs were surface co-stained in 100 µL with 1 µg anti-CD33 recombinant VHH, FITC Plus (MG-1230FITC, Clone: CTK0243) (red), or 1 µg recombinant Alpaca VHH Isotype Control (Clone: CTK0201) (blue) and 5 µL CoraLite® Plus 647 Anti-Human CD14



Human PBMCs stained with anti-CD33 recombinant VHH in Flow Cytometry
1x10⁶ human PBMCs were surface stained in 100 µL with 1 µg anti-CD33 recombinant VHH, FITC Plus (MG-1230FITC, Clone: CTK0243) (red) or unstained (blue). Fc-receptors were blocked. Cells were not fixed. Monocytes were gated.



Human PBMCs co-stained with anti-CD33 recombinant VHH and anti-CD14 261C in Flow Cytometry
1x10⁶ human PBMCs were surface co-stained in 100 µL with 1 µg anti-CD33 recombinant VHH, FITC Plus (MG-1230FITC, Clone: CTK0243), or 1 µg recombinant Alpaca VHH Isotype Control, FITC Plus (Clone: CTK0201) and 5 µL Anti-Human CD14, CoraLite® Plus 647 (CL647-