

For Research Use Only

anti-FLT3 recombinant VHH, CoraLite® Plus 647



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Catalog Number: CL647-flt

Basic Information

Catalog Number:
CL647-flt

Applications:
FC, IF

Host:
Alpaca

Conjugate:
CoraLite® Plus 647

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3101947

Molecular Weight:
15.433 kDa

Description

CL647-flt targets FLT3 in FC and IF applications and shows reactivity with Human samples.

Affinity

Picomolar range, below the assay limit (biolayer interferometry)

Excitation/Emission Maxima Wavelengths

654 nm / 674 nm

Background

FLT3 (also known as CD135 or FLK2) is a tyrosine-protein kinase that acts as a cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation, and survival of hematopoietic progenitor cells and of dendritic cells. FLT3 was originally identified by its expression in hematopoietic stem/progenitor cells (PMID: 7507245). It is important for the normal development of hematopoietic stem/progenitor cells. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

Storage

Storage:
Store at -20°C

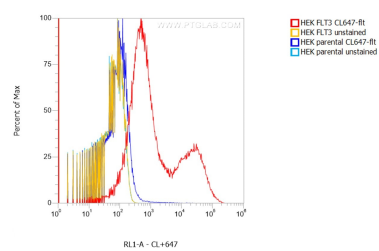
Storage Buffer:
500 mM NaCl, 10 mM HEPES pH 7.0, 5 mM EDTA, 0.09% sodium azide

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

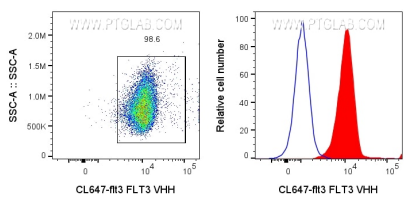
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

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

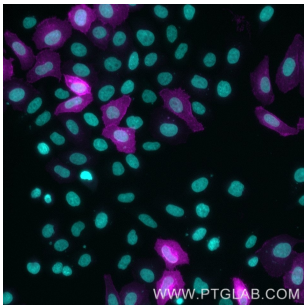
Selected Validation Data



1X10⁶ HEK FLT3 transient transfected cells (red) and HEK parental cells were surface stained with 0.5 µg CoraLite® Plus 647 conjugated FLT3 VHH (CL647-ft). Cells were not fixed.



0.5x10⁶ KG-1 cells were surface stained with 1µg CoraLite® Plus 647 conjugated FLT3 VHH (CL647-ft3) (red) or unstained (blue).



HeLa cells transfected with human FLT-3 were immunostained with CoraLite Plus 647 conjugated FLT3 VHH (1:500, magenta). Nuclei were stained with DAPI (blue or cyan). Epifluorescence images were acquired with a 20x objective and post-processed. Comment: Immunostaining with CoraLite Plus 647 conjugated FLT3 VHH can be performed live or after formaldehyde fixation.