

Catalog Number: FITC-flt

Basic Information

Catalog Number:
FITC-flt**Applications:**
FC, IF**Host:**
Alpaca**Conjugate:**
FITC Plus**Type:**

Nanobody

Class:

Recombinant

RRID:

AB_3101945

Molecular Weight:

15.433 kDa

Description

FITC-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

495 nm / 524 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

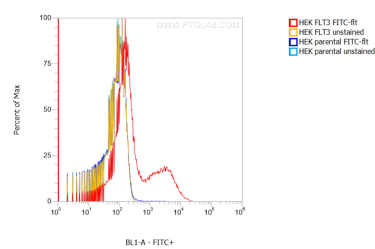
Storage:

Store at -20°C

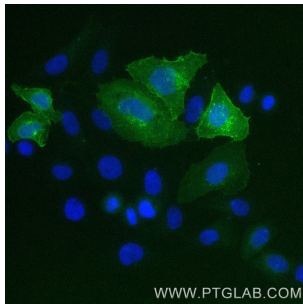
Storage Buffer:

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

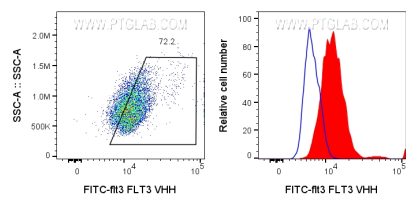
Selected Validation Data



1X10⁶ HEK FLT3 transient transfected cells (red) and HEK parental cells were surface stained with 0.5 μ g FITC Plus conjugated-FLT3 VHH (FITC-flt). Cells were not fixed.



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



0.5x10⁶ KG-1 cells were surface stained with 2 μ g FITC Plus conjugated FLT3 VHH (FITC-flt3) (red) or unstained (blue).