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# anti-FLT3 recombinant VHH, for 2x Cys conjugation

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Catalog Number: fltCys2

## Basic Information

**Catalog Number:**
fltCys2

**Applications:**
Conjugation

**Host:**
Alpaca

**Conjugate:**
Unconjugated

**Type:**
Nanobody

**Class:**
Recombinant

**RRID:**
AB_3101944

**Molecular Weight:**
15.433 kDa

## Description

Alpaca anti-FLT3 VHH, purified recombinant binding protein. Suitable for for cysteine conjugation with thiol-reactive reagents, e.g. maleimides. Note: unconjugated VHHs are not suited for usage without prior labeling, since they contain reactive Cysteines. Shipment and storage buffers contain TCEP to keep Cysteins reduced.

## Affinity

Picomolar range, below the assay limit (biolayer interferometry)

## 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:**
10 mM HEPES, 500 mM NaCl, pH 7.0, 1 mM TCEP, 0.09% sodium azide

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

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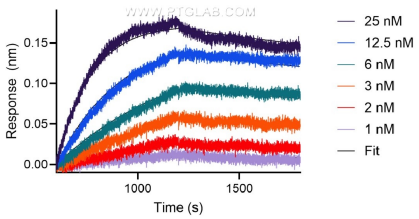
## Selected Validation Data




The affinity of anti-human FLT3 recombinant VHH towards human FLT3 was determined using biolayer interferometry (BLI). Biotinylated, recombinant human FLT3 was immobilized on Streptavidin biosensors and assayed with 1.5 to 100 nM of FITC Plus conjugated-FLT3 VHH (FITC-flt). Fit indicates a 1:1 binding model fitted to the data.