

# Recombinant Rhesus Monkey FLT3 Protein, His-tagged

**Cat. No.** FLT3-1155R    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Rhesus monkey FLT3 Protein (XP\_001117913 (aa.32-542)) was expressed in human HEK293 cells with His tag.

### Species

Rhesus macaque

### Source

HEK293

### ProteinLength

aa.32-542

### Description

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 32 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD135, also known as FLT-3, FLK-2, is a member of the CD system. CD135 is an important cell surface marker recognized by specific sets of antibodies to identify the types of hematopoietic (blood) progenitors in the bone marrow and it function to differentiate hematopoietic stem cells, which are CD135 negative, from multipotent progenitors, which are CD135 positive. CD135 is a receptor tyrosine kinase type for the cytokine Flt3 ligand and activat signaling through second messengers by binding to Flt3. Signaling through CD135 is important for lymphocyte development. The encoding gene CD135 is a proto-oncogene to which mutations

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happened will lead to cancer such as leukemia.

**Form**

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Molecular Mass**

The recombinant human FLT3 has a predicted molecular mass of 59.7 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 85-95 kDa due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**Applications**

ELISA; WB; Immunogen

**Notes**

Please avoid repeated freeze-thaw cycles.

**Storage**

Store at -80 centigrade.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name**

FLT3 fms related tyrosine kinase 3 [ *Macaca mulatta* (Rhesus monkey) ]

**Official Symbol**

FLT3

**Synonyms**

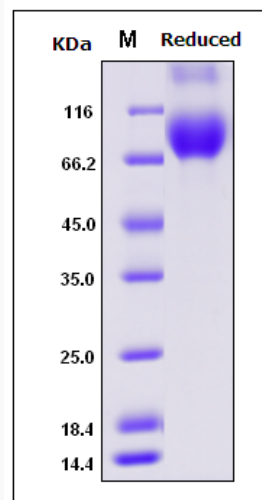
FLT3; CD135; FLK2; STK1; STK-1; CD135 antigen; FLK-2;

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Gene ID	721712
mRNA Refseq	XM_001117913.2
Protein Refseq	XP_001117913



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