

Datasheet for ABIN7505169

FLT3 Protein (AA 372-493) (His tag)



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Overview

Quantity:	100 µg
Target:	FLT3
Protein Characteristics:	AA 372-493
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLT3 protein is labelled with His tag.

Product Details

Sequence:	Arg 372-Gly 493
Characteristics:	A DNA sequence encoding the Human FLT3 protein (P36888) (Arg 372-Gly 493) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	FLT3
Alternative Name:	FLT3 (FLT3 Products)
Background:	<p>Abbreviation: FLT3</p> <p>Target Synonym: Receptor-Type Tyrosine-Protein Kinase FLT3,FL Cytokine Receptor,Fetal Liver Kinase-2,FLK-2,Fms-Like Tyrosine Kinase 3,FLT-3,Stem Cell Tyrosine Kinase 1,STK-1,CD135,FLT3,FLK2,STK1</p>

Target Details

Background: 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 320 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 its function to differentiate hematopoietic stem cells, which are CD135 negative, from multipotent progenitors, which are CD135 positive. CD135 is a receptor tyrosine kinase type III for the cytokine Flt3 ligand and activates 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 happened will lead to cancer such as leukemia.

Molecular Weight: Calculated MW: 13.31 kDa
Observed MW: 20 kDa

UniProt: [P36888](#)

Pathways: [RTK Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months