

# Product Information

## MemDX™ Membrane Protein Human FLT3 (Fms related receptor tyrosine kinase 3 ) for Antibody Discovery

Cat. No.: **MP1195J**

This product is for research use only and is not intended for diagnostic use.

This product is a 112.7 kDa Human FLT3 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

FLT3

#### Protein Length

Full-length

#### Protein Class

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

#### Molecular Weight

112.7 kDa

#### TMD

1

#### Sequence

MPALARGGGQLPLLVFSAIFGTITNQDLPVIKCVLINHKNNDSSVGKSSSYPMVSESPEDLGCALRPQ  
SSGTVYEA-AAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAGE  
YLLFIQSEATNYTILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLCDSQGESCKEES  
PAVVKKEEKVLHELFGMDIRCCARNELGRECTRLFTIDLNQTPQTTLPLQLFLKVGEPWLWIRCKAVHVNHG  
FGLTWELNKALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGF  
NATNSSDYEDQYEEFCFSVRFKAYPQIRCTWTFSRKSFCEQKGLDNGYSISKFCNHKHQPGEYIFHA  
ENDDAQFTKMFTLNIRRPQVLAEASASQASCFSDGYPLPSWTWKKCSDKSPNCTEEITEGVWNRKANRK  
VFGQWVSSSTLNMSEAIGFLVKCCAYNSLGTSCETILLNSPGPFPIQDNISFYATIGVCLLFIVVLT  
LICHKYYKKQFRYEQLMVQVTGSSDNEYFYVDFREYEDLKWEFPRENLEFGKVLGSGAFGKVMNATAY  
GISKTGVSIQVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACTLSGPIYLIFEYCCYGDLL  
NYLRSKREKFHRTWTEIFKEHNFSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHGNSFHSEDEIEYEN  
QKRLEEEEDLNVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKVVKICDFGLARDIMSDS  
NYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPYPGIPVDANFYKLIQNGFKMDQ  
PFYATEEIIYIMQSCWAFDSRKRPSFPNLTSFLGCQLADAEAMYQNV DGRVSECPHTYQNRPFPSREMD  
LGLLSPQAQVEDS

## Product Description

### Expression Systems

HEK293T

### Tag

C-Myc/DDK

### Form

Liquid

### Purification

Anti-DDK affinity column followed by conventional chromatography steps

### Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

### Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

### Storage

Store at +4°C for up to one week or several months at -80°C

## Target

### Target Protein

FLT3

### Full Name

Fms related receptor tyrosine kinase 3

### Introduction

This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. This receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

### Alternative Names

CD135; FLK-2; FLK2; STK1

### Gene ID

[2322](#)

### UniProt ID

[P36888](#)