

Product Information

MemDX™ Antibody Discovery - Human CD117 / c-kit (26-516) Membrane Protein, Partial, - hIgG1 Fc tag

Cat. No.: **MP1089F**

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

This membrane protein is Human CD117 / c-kit (26-516). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

CD117 / c-kit

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 81.9 kDa. The protein migrates as 100-125 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence

AA Gln 26 - Thr 516 (Accession # P10721-2).

Product Description

Activity

Yes

Application

SDS-PAGE, ELISA

Expression Systems

HEK293

Tag

Human IgG1 Fc tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

Target

Target Protein

CD117 / c-kit

Full Name

KIT proto-oncogene, receptor tyrosine kinase

Introduction

This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

mast/stem cell growth factor receptor Kit, c-Kit protooncogene, p145 c-kit, piebald trait protein, proto-oncogene c-Kit, proto-oncogene tyrosine-protein kinase Kit, soluble KIT variant 1, tyrosine-protein kinase Kit, v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog, v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein

Gene ID

[3815](#)

UniProt ID

[P10721](#)