

Datasheet for ABIN7317111
MERTK Protein (GST tag,His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	MERTK
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MERTK protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human MERTK/MER Protein (His&GST Tag)
Sequence:	Glu 578-Tyr 872
Characteristics:	A DNA sequence encoding the human MERTK (Q12866) protein kinase domain (Glu 578-Tyr 872) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MERTK
Alternative Name:	MERTK/MER (MERTK Products)
Background:	Background: Proto-oncogene tyrosine-protein kinase MER (MERTK) is a member of the MER/AXL/TYRO3 receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one

Target Details

tyrosine kinase domain. MERTK is localized in membrane and is not expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines. This protein is highly expressed in testis, ovary, prostate, lung, and kidney, with lower expression in spleen, small intestine, colon, and liver. MERTK regulates many physiological processes including cell survival, migration, differentiation, and phagocytosis of apoptotic cells (efferocytosis). Ligand binding at the cell surface induces autophosphorylation of MERTK on its intracellular domain that provides docking sites for downstream signaling molecules. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. MERTK plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3. Defects in MERTK are the cause of retinitis pigmentosa type 38.

Synonym: Tyrosine-protein kinase Mer, Proto-oncogene c-Mer, Receptor tyrosine kinase MerTK, MERTK, MER, Mer

Molecular Weight:	62 kDa
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UniProt:	Q12866
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Pathways:	RTK Signaling
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Application Details

Restrictions:	For Research Use only
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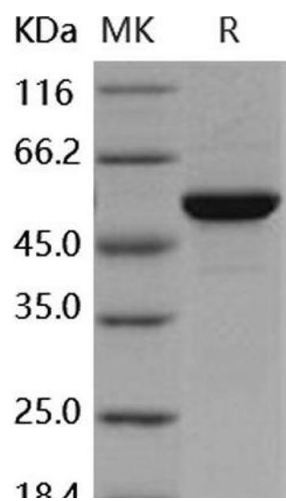
Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 7.4, 20 % glycerol, 0.3 mM DTT
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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Western Blotting

Image 1.