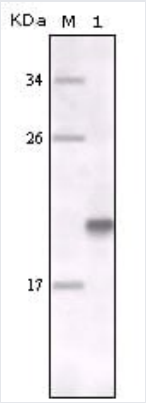
MER Antibody – Mouse

PRODUCT OVERVIEW

Product Name	MER, Antibody
Full Product Name	MER Antibody
Product Gene Name	anti-MER antibody
Product Synonym Names	MER; RP38; c-mer; MGC133349; MERTK
Isotype	IgG1
Clone Number	7E5G1
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Preparation and Storage	Store at 4 degree C, for long term storage, store at-20 degree C
Molecular Weight	110,249 Da
OMIM	604705
3D Structure	ModBase 3D Structure for Q12866
Immunogen	Purified recombinant fragment of MER expressed in E. Coli.
Product Categories/Family for anti-MER antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MER antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MER antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-MER antibody	MER (c-mer proto-oncogene tyrosine kinase) 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 tyrosine kinase domain. MER has been identified as a tyrosine kinase potentially involved in the development of glioblastomas. It is expressed at highest levels in ovary, prostate, lung and kidney. Gas6, a growth arrest specific gene, and the related anticoagulation factor Protein S have been identified as ligands for the UFO family of receptors. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP).
Other Notes	Small volumes of anti-MER antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MER purchase	MBS850426 is an antibody targeting MER. Also known as MER Antibody. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-MER antibody
Figure 1. Western blot analysis using MER mouse mAb against full-length MER recombinant protein.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MER. It may not necessarily be applicable to this product.

NCBI GI #	66932918
NCBI GeneID	10461
NCBI Accession #	NP_006334.2
UniProt Primary Accession #	Q12866
UniProt Secondary Accession #	Q9HBB4
UniProt Related Accession #	Q12866
GenBank Nucleotide #	NM_006343.2
NCBI Official Full Name	tyrosine-protein kinase Mer
NCBI Official Synonym Full Names	MER proto-oncogene, tyrosine kinase
NCBI Official Symbol	MERTK
NCBI Official Synonym Symbols	MER; RP38; c-Eyk; c-mer; Tyro12
UniProt Protein Name	Tyrosine-protein kinase Mer
UniProt Synonym Protein Names	Proto-oncogene c-Mer; Receptor tyrosine kinase MerTK
Protein Family	5,10-methylenetetrahydromethanopterin reductase
UniProt Gene Name	MERTK
UniProt Synonym Gene Names	MER
NCBI Protein Information	tyrosine-protein kinase Mer
NCBI Summary for MER	This gene 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 tyrosine kinase domain. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). [provided by RefSeq, Jul 2008]

UniProt Comments for MER	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including LGALS3, TUB, TULP1 or GAS6. 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. Following activation by ligand, interacts with GRB2 or PLCG2 and induces phosphorylation of MAPK1, MAPK2, FAK/PTK2 or RAC1. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. Functions in the retinal pigment epithelium (RPE) as a regulator of rod outer segments fragments phagocytosis. 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.
Research Articles on MER	**1.** Study describes a novel cellular pathway involved in diabetic efferocytosis, wherein diabetes-induced decrease in miR-126 expression results in upregulation of ADAM9 expression that in-turn leads proteolytic cleavage of MerTK and formation of inactive soluble Mer. Decrease in MerTK phosphorylation leads to reduced downstream cytoskeletal signaling required for engulfment and thus decreases efferocytosis.
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