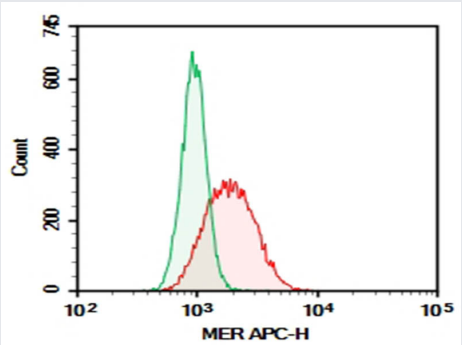
MER Antibody – Mouse

PRODUCT OVERVIEW

Product Name	MER, Antibody
Full Product Name	Purified Anti-Human MER Antibody [590H11G1E3]
Product Gene Name	anti-MER antibody
Product Synonym Names	Tyro; MERTK; MER; RP38; Tyro12; c-Eyk; c-mer; Proto-oncogene c-Mer; Receptor tyrosine kinase MerTK; Tyrosine-protein kinase Mer
Isotype	IgG1, kappa
Clone Number	590H11G1E3
Host	Mouse
Species Reactivity	Human
Preparation and Storage	Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles.
Molecular Weight	110,249 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (112656191..112786945). Location: 2q14.1
OMIM	604705
3D Structure	ModBase 3D Structure for Q12866
Conjugation	Unconjugated
Product Categories/Family for anti-MER antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies; Neuroscience; Signal Transduction; Cell Biology; Immunology; Metabolism
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MER antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-MER antibody	MBS2585333 is an antibody targeting MER. Also known as Purified Anti-Human MER Antibody [590H11G1E3]. Reactive in Human. Host: Mouse.
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.



Testing Data of anti-MER antibody
A549 were stained with 0.2 ?g Purified Anti-Human MER Antibody[590H11G1E3] (Right) and 0.2 ?g Mouse IgG1, ? Isotype Control(Left), followed by APC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

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	c-mer proto-oncogene tyrosine kinase
NCBI Official Symbol	MERTK
NCBI Official Synonym Symbols	MER; RP38; c-mer
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
UniProt Entry Name	MERTK_HUMAN
NCBI Protein Information	tyrosine-protein kinase Mer; STK kinase; proto-oncogene c-Mer; MER receptor tyrosine kinase; receptor tyrosine kinase MerTK
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	Mer: a proto-oncogene receptor tyrosine-protein kinase of the Axl family. Binds several ligands including LGALS3, Tubby, TULP1 or GAS6. Regulates many physiological processes including cell survival, migration, differentiation, and phagocytosis of apoptotic cells (efferocytosis). 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 Protein type: Protein kinase, TK; EC 2.7.10.1; Oncoprotein; Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); TK group; Axl family Chromosomal Location of Human Ortholog: 2q14.1 Cellular Component: extracellular space; photoreceptor outer segment; integral to plasma membrane; cytoplasm; plasma membrane Molecular Function: protein binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: platelet activation; negative regulation of lymphocyte activation; peptidyl-tyrosine phosphorylation; vagina development; protein amino acid phosphorylation; phagocytosis; cell surface receptor linked signal transduction; cell-cell signaling; natural killer cell differentiation; retina development in camera-type eye; positive regulation of phagocytosis; protein kinase B signaling cascade; spermatogenesis; blood coagulation; leukocyte migration; apoptotic cell clearance; secretion by cell Disease: Retinitis Pigmentosa 38
Research Articles on MER	**1.** Oxidized of polyunsaturated fatty acids contained in the tissue close to necrotic core of human carotid plaques are strong inducers of Adam17, which in turn may cleave the extracellular domain of Mertk giving rise to sMer.
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