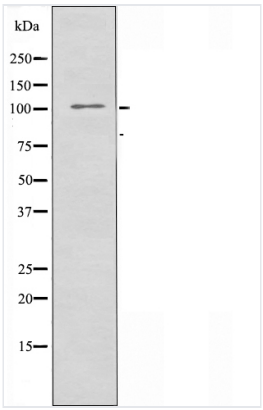
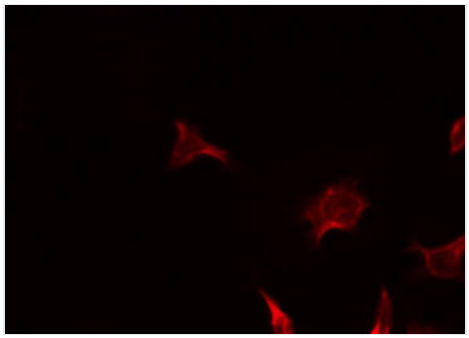
MERTK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MERTK, Polyclonal Antibody
Full Product Name	MERTK Antibody
Product Gene Name	anti-MERTK antibody
Product Synonym Names	c MER; c mer proto oncogene tyrosine kinase; c-mer; cMER; cmer protooncogene tyrosine kinase; Eyk; MER; MER receptor tyrosine kinase; MERK; MERPEN; Mertk; MERTK c-mer proto-oncogene tyrosine kinase; MERTK_HUMAN; MGC133349; nmf12; Nyk; Proto oncogene tyrosine protein kinase MER; Proto oncogene tyrosine protein kinase MER precursor; Proto-oncogene c-Mer; Receptor tyrosine kinase MerTK; RP38; STK kinase; Tyrosine-protein kinase Mer
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Peptide affinity purification
Concentration	1mg/ml (lot specific)
Specificity	MERTK antibody detects endogenous levels of total MERTK
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MERTK peptide (MBS9624956) is used for blocking the activity of MERTK antibody (MBS9606239)
Molecular Weight	110 KD
3D Structure	ModBase 3D Structure for Q12866
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MERTK, corresponding to a region within internal amino acids.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MERTK antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-MERTK antibody	WB: 1:500-1:1000 IF/ICC: 1:100-1:500 ELISA(peptide): 1:20000-1:40000 IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight. Optimal dilutions/concentrations should be determined by the end user.
Related Product Information for anti-MERTK antibody	MBS9606239 is an antibody targeting MERTK. Also known as MERTK Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-MERTK 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.



Western Blot (WB) of anti-MERTK antibody
Western blot analysis of extracts from K562 cells using MERTK antibody.



Immunofluorescene (IF) of anti-MERTK antibody
MBS9606239 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MERTK. 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	Tyrosine-protein kinase
UniProt Gene Name	MERTK
UniProt Synonym Gene Names	MER
NCBI Protein Information	tyrosine-protein kinase Mer
NCBI Summary for MERTK	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 MERTK	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 MERTK	**1.** The targeted NGS strategy employed provides an efficient tool for RP pathogenic gene detection. This study identified a new autosomal recessive mutation in the RP-related gene MERTK, which expands the spectrum of RP disease-causing mutations
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