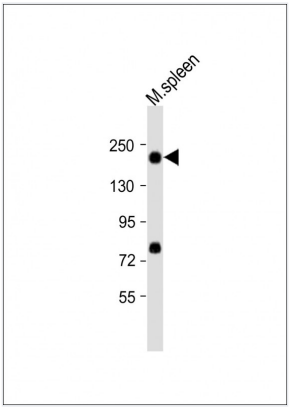
MERTK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Mertk, Polyclonal Antibody
Full Product Name	Mouse Mertk Antibody (C-term)
Product Gene Name	anti-Mertk antibody
Product Synonym Names	Purified Rabbit Polyclonal Antibody (Pab); Tyrosine-protein kinase Mer; Proto-oncogene c-Mer; Receptor tyrosine kinase MerTK; Mertk; Mer
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Specificity	This mouse Mertk antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 911-943 amino acids from the C-terminal region of mouse Mertk.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	Mertk peptide (MBS9230216) is used for blocking the activity of Mertk antibody (MBS9215850)
Molecular Weight	110157
3D Structure	ModBase 3D Structure for Q60805
Antigen Source	Human
Product Categories/Family for anti-Mertk antibody	Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-Mertk antibody	Western Blot (WB)
Application Notes for anti-Mertk antibody	WB ~~ 1:2000
Related Product Information for anti-Mertk antibody	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.
Product References and Citations for anti-Mertk antibody	Graham D.K.,et al.Oncogene 10:2349-2359(1995). Dowds C.A.,et al.Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases. Lu Q.,et al.Nature 398:723-728(1999). Georgescu M.M.,et al.Mol. Cell. Biol. 19:1171-1181(1999). Behrens E.M.,et al.Eur. J. Immunol. 33:2160-2167(2003).

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.
Searchable Terms for Mertk purchase	MBS9215850 is an antibody targeting Mertk. Also known as Mouse Mertk Antibody (C-term). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Mertk antibody
Anti-Mertk Antibody (C-term)at 1:2000 dilution + mouse spleen lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 110 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

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

NCBI GI #	7106355
NCBI GeneID	17289
NCBI Accession #	NP_032613.1
UniProt Primary Accession #	Q60805
UniProt Secondary Accession #	Q62194
UniProt Related Accession #	Q60805
GenBank Nucleotide #	NM_008587.1
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	Eyk; Mer; Nyk; nmf12
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
UniProt Entry Name	MERTK_MOUSE
NCBI Protein Information	tyrosine-protein kinase Mer

NCBI Summary for Mertk	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: Membrane protein, integral; EC 2.7.10.1; Protein kinase, tyrosine (receptor); Kinase, protein; Protein kinase, TK; Oncoprotein; TK group; Axl family Cellular Component: extracellular space; photoreceptor outer segment; membrane; cytoplasm; integral to membrane Molecular Function: transferase activity; protein-tyrosine kinase activity; nucleotide binding; transmembrane receptor protein tyrosine kinase activity; kinase activity; ATP binding; protein kinase activity Biological Process: negative regulation of lymphocyte activation; platelet activation; natural killer cell differentiation; retina development in camera-type eye; positive regulation of phagocytosis; protein kinase B signaling cascade; vagina development; spermatogenesis; protein amino acid phosphorylation; phosphorylation; apoptotic cell clearance; phagocytosis; secretion by cell
UniProt Comments for Mertk	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: Kinase, protein; Protein kinase, tyrosine (receptor); Membrane protein, integral; Oncoprotein; Protein kinase, TK; EC 2.7.10.1; TK group; Axl family Cellular Component: cytoplasm; extracellular space; integral to membrane; membrane; photoreceptor outer segment Molecular Function: ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein-tyrosine kinase activity; transferase activity; transmembrane receptor protein tyrosine kinase activity Biological Process: apoptotic cell clearance; natural killer cell differentiation; negative regulation of lymphocyte activation; phagocytosis; phosphorylation; platelet activation; positive regulation of phagocytosis; protein amino acid phosphorylation; protein kinase B signaling cascade; retina development in camera-type eye; secretion by cell; spermatogenesis; vagina development
Research Articles on Mertk	**1.** Enhanced Mer signaling during the recovery phase increases the abundance and activity of LXR to inactivate the inflammatory response in macrophages
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