

Rabbit MER/TYRO3 Polyclonal Antibody | anti-MER/TYRO3 antibody

Phospho-MER/TYRO3 (Tyr753/Tyr685) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329915	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

MER/TYRO3; Polyclonal Antibody; Phospho-MER/TYRO3 (Tyr753/Tyr685) Antibody; 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; Brt; BYK; DTK; Etk-2; protein tyrosine kinase 3; Rek; RSE; SKY; Tif; tyro3; TYRO3 protein tyrosine kinase; TYRO3_HUMAN; Tyrosine-protein kinase byk; Tyrosine-protein kinase DTK; Tyrosine-protein kinase receptor TYRO3; Tyrosine-protein kinase RSE; Tyrosine-protein kinase SKY; Tyrosine-protein kinase TIF; anti-MER/TYRO3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MER/TYRO3 (Tyr753/Tyr685) Antibody detects endogenous levels of MER/TYRO3 only when phosphorylated at Tyr753/Tyr685. Tissue Specificity: Abundant in the brain and lower levels in other tissues.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MER/TYRO3 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MER/TYRO3 around the phosphorylation site of Tyr753/Tyr685.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated.
Subunit Structure	Monomer and homodimer. Interacts (via N-terminus) with extracellular ligands TULP1 and GAS6 (By similarity). Interacts with PIK3R1; this interaction increases PI3-kinase activity (By similarity).
Similarity	Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily.
Subcellular Location	Cell membrane>Single-pass type I membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining NIH-3T3 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.



WB (Western Blot)

Western blot analysis of MER/TYRO3 (Phospho-Tyr753/Tyr685) using K562 whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-MER/TYRO3 antibody	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. 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. (Microbial infection) Acts as a receptor for lassa virus and lymphocytic choriomeningitis virus, possibly through GAS6 binding to phosphatidyl-serine at the surface of virion envelope. (Microbial infection) Acts as a receptor for Ebolavirus, possibly through GAS6 binding to phosphatidyl-serine at the surface of virion envelope.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66932918
NCBI GeneID	10461
NCBI Accession #	NP_006334.2
NCBI GenBank Nucleotide #	NM_006343.2
UniProt Accession #	Q12866; Q06418
Molecular Weight	110,249 Da
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
NCBI Protein Information	tyrosine-protein kinase Mer; STK kinase; proto-oncogene c-Mer; MER receptor tyrosine kinase; receptor tyrosine kinase MerTK
UniProt Protein Name	Tyrosine-protein kinase Mer
UniProt Gene Name	MERTK
UniProt Synonym Gene Names	MER
UniProt Entry Name	MERTK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

