

Mouse Mer ELISA Kit

Catalog No: #EK5358



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Description

Product Name	Mouse Mer ELISA Kit
Specificity	Mouse
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	sf21,E23-F498
Other Names	Tyrosine-protein kinase Mer; 2.7.10.1; Proto-oncogene c-Mer; Receptor tyrosine kinase MerTK; Mertk; Mer;
Accession No.	Q60805
Uniprot	Q60805
GeneID	17289;
Cell Localization	Membrane; Single-pass type Imembrane protein.

Application Details

sensitivity:10pg mlDetect Range:78pg ml-5000pg mlsample_type:cell culture supernates cell lysates tissue homogenates and serum.capture_antibody:monoclonal antibody from ratdetection_antibody:polyclonal antibody from goatgene_name:MERTKprotein_name:Tyrosine-protein kinase Mergene_full_name:Tyrosine-protein kinase Mertissue_specificity: Expressed predominantly in the hematopoieticlineages: macrophages NK cells NKT cells dendritic cells andplatelets..sequence_similarities:Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL UFO subfamily.tmb_incubation:25-30minresearch_category:neuroscience|neurotransmission|intracellular signaling|kinases|signal transduction|protein phosphorylation|tyrosine kinases|receptor tyrosine kinases|sensory system|visual system

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse MER,MERTK

Background

protein_function: Receptor tyrosine kinase that transduces signals fromthe extracellular matrix into the cytoplasm by binding to severalligands including LGALS3, TUB, TULP1 or GAS6. Regulates manyphysiological processes including cell survival, migration,differentiation, and phagocytosis of apoptotic cells(efferocytosis). Ligand binding at the cell surface inducesautophosphorylation of MERTK on its intracellular domain thatprovides docking sites for downstream signaling molecules.Following activation by ligand, interacts with GRB2 or PLCG2 andinduces phosphorylation of MAPK1, MAPK2, FAK,PTK2 or RAC1. MERTKsignaling plays a role in various processes such as macrophageclearance of apoptotic cells, platelet aggregation, cytoskeletonreorganization and engulfment. Functions in the retinal pigmentepithelium (RPE) as a regulator of rod outer segments fragmentsphagocytosis. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response byactivating STAT1, which selectively induces production ofsuppressors of cytokine signaling SOCS1 and SOCS3..Proto-oncogene tyrosine-protein kinase MER, also called MERTK is an enzyme that in humans is encoded by the MERTK gene. 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. This gene is mapped to 2q13. 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. This gene also plays 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.

Note: This product is for in vitro research use only