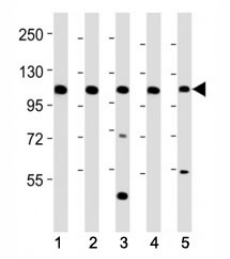
Mertk Antibody (F53189)

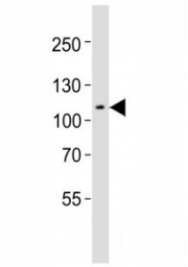
Catalog No.	Formulation	Size
F53189-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53189-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q60805
Applications	1:1000-2000
Limitations	This Mertk antibody is available for research use only.



Western blot testing of Mertk antibody at 1:2000 dilution. Lane 1: mouse kidney lysate; 2: mouse liver lysate; 3: NIH3T3 lysate; 4: rat kidney lysate; 5: rat liver lysate; Predicted molecular weight: 110~205 kDa depending on glycosylation level



Western blot testing of Mertk antibody at 1:1000 dilution + mouse spleen lysate; Predicted molecular weight: 110~205 kDa depending on glycosylation level

Description

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.

For a Protein Microarray Validated monoclonal antibody to this target, see our MerTK Antibody MERTK/3015 / MERTK Monoclonal Antibody.

Application Notes

Titration of the Mertk antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Mertk antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 946-980 amino acids from the C-terminal region of mouse Mertk.

Storage

Aliquot the Mertk antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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