

**Mouse Mertk Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5501****Specification**

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**Mouse Mertk Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q60805</a>
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	M=110;R=109 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**Mouse Mertk Antibody (C-term) - Additional Information****Gene ID** 17289**Antigen Region**  
946-980**Other Names**

Tyrosine-protein kinase Mer, Proto-oncogene c-Mer, Receptor tyrosine kinase MerTK, Mertk, Mer

**Dilution**

WB~~1:1000

**Target/Specificity**

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

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Mertk Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Mertk Antibody (C-term) - Protein Information****Name** Mertk**Synonyms** Mer**Function**

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. 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.

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q12866}; Single-pass type I membrane protein

#### Tissue Location

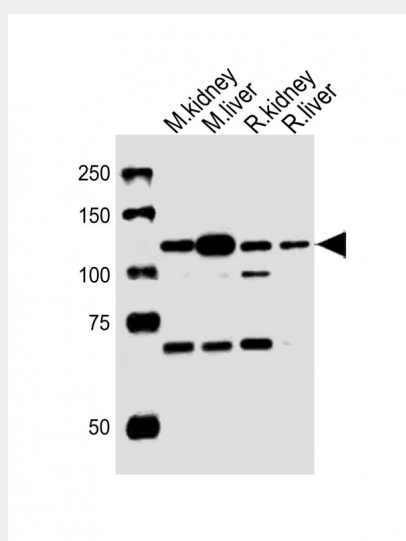
Expressed predominantly in the hematopoietic lineages: macrophages, NK cells, NKT cells, dendritic cells and platelets.

### Mouse Mertk Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Mouse Mertk Antibody (C-term) - Images



All lanes : Anti-Mertk Antibody (C-term) at 1:1000 dilution Lane 1: mouse kidney lysates Lane 2: mouse liver lysates Lane 3: rat kidney lysates Lane 4: rat liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution

Predicted band size : 110 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **Mouse Mertk Antibody (C-term) - Background**

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.

### **Mouse Mertk Antibody (C-term) - References**

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Lu Q.,et al.Nature 398:723-728(1999).  
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