

Datasheet for ABIN3030226  
**anti-MERTK antibody (C-Term)**

## 3 Images

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## Overview

Quantity:	0.4 mL
Target:	MERTK
Binding Specificity:	C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MERTK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

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.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

## Target Details

Target:	MERTK
Alternative Name:	Mertk ( <a href="#">MERTK Products</a> )
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

## Target Details

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.

UniProt: [Q60805](#)

Pathways: [RTK Signaling](#)

## Application Details

Application Notes: Titration of the Mertk antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000-2000

Restrictions: For Research Use only

## Handling

Format: Liquid

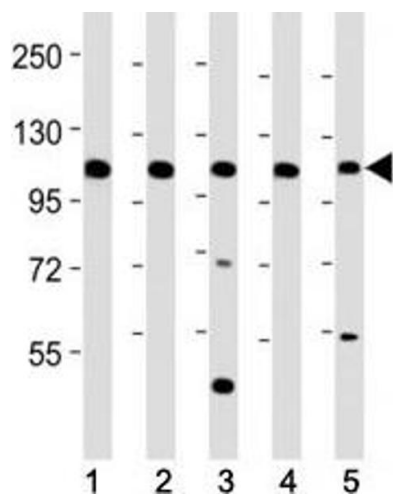
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

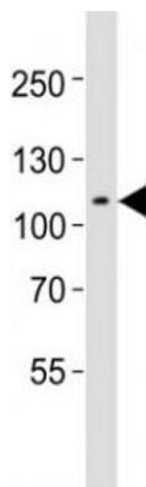
Storage: -20 °C

Storage Comment: Aliquot the Mertk antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



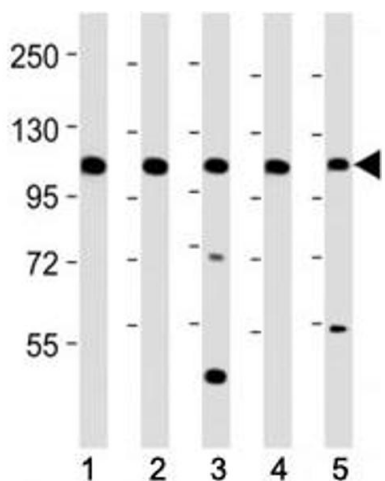
Western Blotting

**Image 1.** 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 Blotting

**Image 2.** Western blot testing of Mertk antibody at 1:1000 dilution + mouse spleen lysate; Predicted molecular weight: 110~205 kDa depending on glycosylation level



Western Blotting

**Image 3.** Western blot testing of Mertk antibody at 1:2000 dilution. Lane 1: mouse kidney lysate