

MERTK Polyclonal Antibody

Catalog NumberPA5-14701

Product data sheet

Details		Tested Applications	Dilution *
Size	400 µL	Immunohistochemistry (Paraffin) (IHC (P)) Western Blot (WB)	1:10-1:50
Host/Isotope	Rabbit / IgG		1:1,000
Class	Polyclonal	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Type	Antibody		
Immunogen	KLH conjugated synthetic peptide between 21-51 amino acids from the N-terminal region of human MERTK		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1.6 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Background/Target Information

MERTK (cMER) is a tyrosine kinase proto-oncogene and is involved in the retinal pigment epithelium (RPE) phagocytosis pathway, which is implicated in human retinal disease. 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.

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