

Anti-MERTK/Mer Antibody (2J614)

Product Details

Ig Type:	Human IgG4(S228P)
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2J614
Purification:	Affinity-chromatography

Applications

Verified Activity:	The Binding Activity of MERTK with anti-MERTK antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized MERTK at 2 µg/mL can bind anti-MERTK antibody(TMAH-00746), the EC50 is 41.31-72.08 ng/mL.
Application:	ELISA

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human MERTK Protein
Antigen Species:	Human
Gene ID:	10461
Uniprot ID:	Q12866
Synonyms:	MER;c-mer;MERTK;c-Eyk;Tyro12;MGC133349;RP38
Biology Area:	Neuroscience, Signal transduction

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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