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MERTK Rabbit pAb

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Catalog # AP94184

Product Information

Application	WB, E
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108 KDa
Physical State	Liquid
Immunogen	Recombinant mouse MERTK protein
Epitope Specificity	23-497/994
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
SIMILARITY	Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily. Contains 2 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
SUBUNIT	Interacts (upon activation) with TNK2; stimulates TNK2 autophosphorylation. Interacts (via N-terminus) with extracellular ligands LGALS3, TUB, TULP1 and GAS6. Interacts with VAV1 in a phosphotyrosine-independent manner.
Post-translational modifications	Autophosphorylated on Tyr-744, Tyr-748 and Tyr-749 in the activation loop allowing full activity. Autophosphorylated on Tyr-867 leading to recruitment of downstream partners of the signaling cascade such as PLCG2.
DISEASE	Defects in MERTK are the cause of retinitis pigmentosa type 38 (RP38) [MIM:613862]. RP38 is a retinal dystrophy belonging to the group of pigmentary retinopathies. Retinitis pigmentosa is characterized by retinal pigment deposits visible on fundus examination and primary loss of rod photoreceptor cells followed by secondary loss of cone photoreceptors. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Major Facilitator Superfamily (MFS) is a large and diverse group of secondary transporters that includes uniporters, symporters, and antiporters. MFS proteins facilitate the transport across cytoplasmic or internal membranes of a variety of substrates including ions, sugar phosphates, drugs, neurotransmitters, nucleosides, amino acids, and peptides. They do so using the electrochemical potential of the transported substrates. Uniporters transport a single substrate, while symporters and antiporters transport two substrates in the same or in opposite directions, respectively, across membranes. Peptide-transporters 2 [solute carrier family 15 (H+/peptide transporter), member 2; SLC15A2; PEPT2 ; Oligopeptide transporter, kidney isoform ; Kidney H(+)/peptide cotransporter;].

Additional Information

Target/Specificity	Expressed predominantly in the hematopoietic lineages: macrophages, NK cells, NKT cells, dendritic cells and platelets.
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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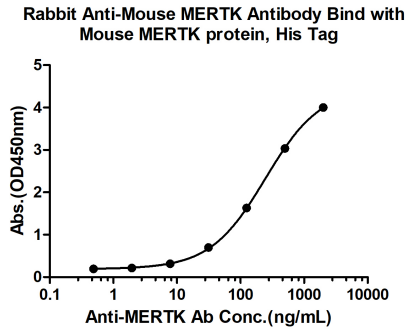
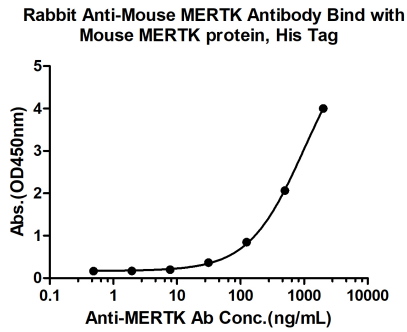
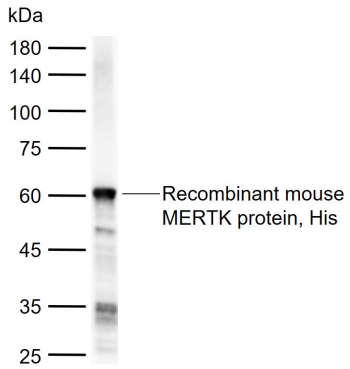
Images



Measured by its binding ability in a indirect ELISA. Immobilized Mouse MERTK protein, His Tag (Cat. bs-41398P) at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Mouse MERTK Antibody, the EC50 is 246.3 ng/mL.



Measured by its binding ability in a indirect ELISA. Immobilized Mouse MERTK protein, His Tag (Cat. bs-41398P) at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Mouse MERTK Antibody, the EC50 is 992.7 ng/mL.



Sample: Lane 1: Recombinant mouse MERTK protein, His Primary: Anti-MERTK (AP94184) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: kDa Observed band size: 60 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.