

For Research Use Only

MERTK Recombinant antibody

Catalog Number: 84156-2-RR



Basic Information

Catalog Number: 84156-2-RR	GenBank Accession Number: BC114918	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 10461	CloneNo.: 241252H3
Source: Rabbit	UNIPROT ID: Q12866	Recommended Dilutions: WB 1:500-1:1000 IHC 1:125-1:500
Isotype: IgG	Full Name: c-mer proto-oncogene tyrosine kinase	
Immunogen Catalog Number: AG27540	Calculated MW: 999 aa, 110 kDa Observed MW: 160-180 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : U-937 cells, HEK-293T cells IHC : mouse kidney tissue,
Species Specificity: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MerTK (Mer tyrosine kinase), also known as RP38, c-Eyk, c-mer, and Tyro12, was first cloned from a human B lymphoblastoid expression library (PMID:8086340) and is one of the TAM (Tyro-3, Axl, and MerTK) receptor tyrosine kinase (RTK) family (PMID:23833304). Although this RTK, like others, can promote tumor cell proliferation to some extent, MERTK primarily lends tumor cells crucial survival advantages while promoting invasion, migration and metastasis, drug resistance, and, in the innate immune system, suppressing anti-tumor immunity (PMID:32417270). The multiple MERTK species observed are likely due to posttranslational modifications (PMID: 23585477).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

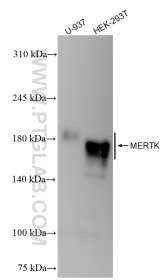
T: 4006900926

E: Proteintech-CN@ptglab.com

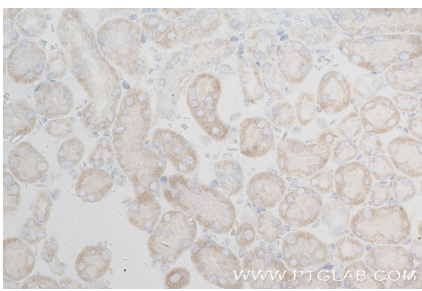
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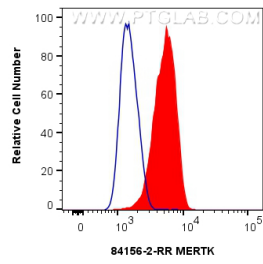
Selected Validation Data



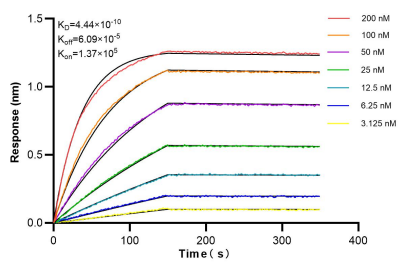
Various lysates were subjected to SDS PAGE followed by western blot with 84156-2-RR (MERTK antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 84156-2-RR (MERTK antibody) at dilution of 1:250 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug MERTK Recombinant antibody (84156-2-RR, Clone:241252H3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84156-2-RR against Human MERTK were performed. The affinity constant is 0.444 nM.