

For Research Use Only

MERTK Recombinant antibody

Catalog Number: 84156-2-RR



Basic Information

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| Catalog Number: 84156-2-RR | GenBank Accession Number: BC114918 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | 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

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

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

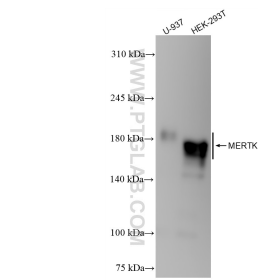
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

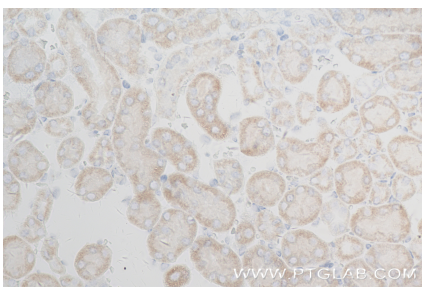
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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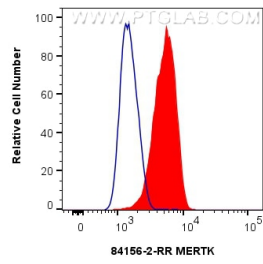
Selected Validation Data



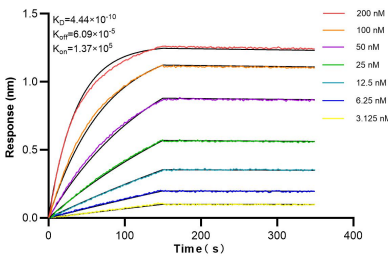
Various lysates were subjected to SDS PAGE followed by western blot with 84156-2-RR (MERTK antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.