

For Research Use Only

MERTK Polyclonal antibody

Catalog Number: 27900-1-AP

3 Publications



Basic Information

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| Catalog Number: 27900-1-AP | GenBank Accession Number: BC114918 | Purification Method: Antigen affinity purification |
| Concentration: 700 ug/ml | GeneID (NCBI): 10461 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:500-1:2000 |
| Source: Rabbit | UNIPROT ID: Q12866 | |
| 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, FC (Intra), ELISA | Positive Controls: WB : HEK-293T cells, U-937 cells, mouse testis tissue IHC : rat liver tissue, human lung tissue, mouse lung tissue |
| Cited Applications: WB, IHC, IF | |
| Species Specificity: human, mouse, rat | |
| Cited Species: human | |
| 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).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|-----------------------------|-------------|
| Shimiao Bu | 39845889 | Front Endocrinol (Lausanne) | WB |
| Shun Wang | 38382467 | Cell Rep Med | IF |
| Yandan Zhou | 38233691 | Eur Arch Otorhinolaryngol | IHC |

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:

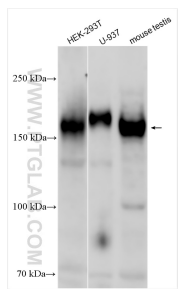
T: 4006900926

E: Proteintech-CN@ptglab.com

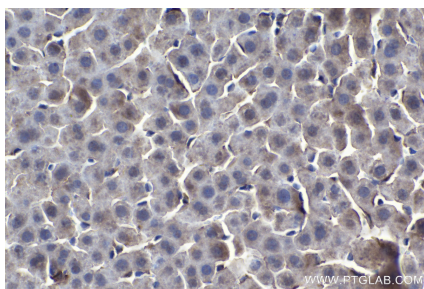
W: ptgcn.com

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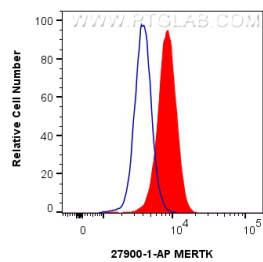
Selected Validation Data



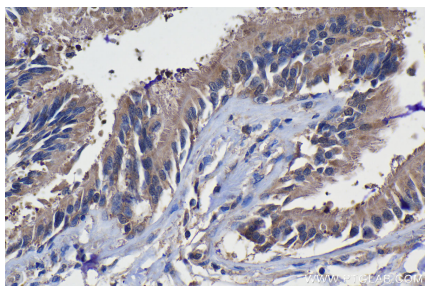
Various lysates were subjected to SDS PAGE followed by western blot with 27900-1-AP (MERTK antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



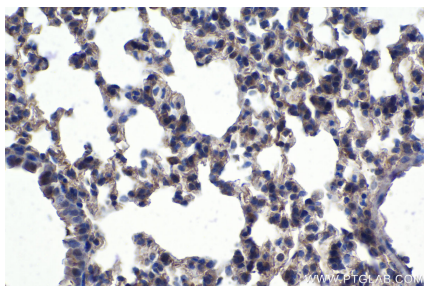
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 27900-1-AP (MERTK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug MERTK Polyclonal antibody (27900-1-AP) 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).



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 27900-1-AP (MERTK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 27900-1-AP (MERTK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).