

For Research Use Only

MERTK Polyclonal antibody

Catalog Number: 27900-1-AP

4 Publications



Basic Information

Catalog Number:

27900-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27540

GenBank Accession Number:

BC114918

GeneID (NCBI):

10461

UNIPROT ID:

Q12866

Full Name:

c-mer proto-oncogene tyrosine kinase

Calculated MW:

999 aa, 110 kDa

Observed MW:

160-180 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:500-1:2000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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

Positive Controls:

WB: HEK-293T cells, U-937 cells, mouse testis tissue

IHC: rat liver tissue, human lung tissue, mouse lung tissue

FC (Intra): Jurkat cells,

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
Han Zhang	39923958	J Ethnopharmacol	WB
Shimiao Bu	39845889	Front Endocrinol (Lausanne)	WB
Shun Wang	38382467	Cell Rep Med	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

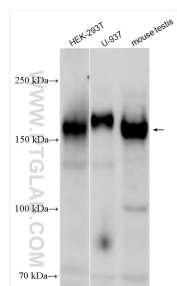
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

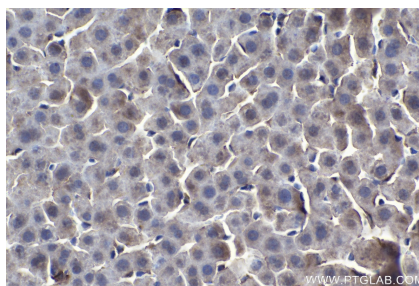
E: proteintech@ptglab.com
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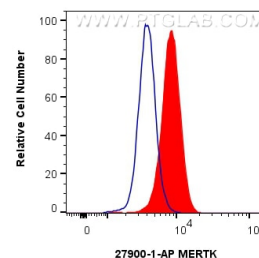
Selected Validation Data



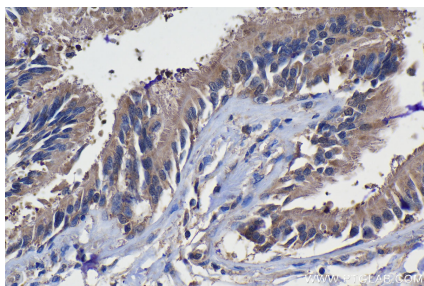
Various lysates were subjected to SDS PAGE followed by western blot with 27900-1-AP (MERTK antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



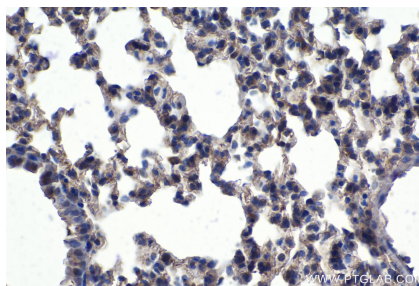
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 27900-1-AP (MERTK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 Jurkat cells were intracellularly stained with 0.25 μ g MERTK Polyclonal antibody (27900-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g 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).