

For Research Use Only

Angiopoietin 1 Recombinant antibody

Catalog Number: 81990-4-RR



Basic Information

Catalog Number: 81990-4-RR	GenBank Accession Number: BC152411	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 284	CloneNo.: 240764D10
Source: Rabbit	UNIPROT ID: Q15389	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG	Full Name: angiopoietin 1	
Immunogen Catalog Number: AG18829	Calculated MW: 498 aa, 58 kDa Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : A549 cells, HeLa cells, U-87 MG cells IHC : mouse heart tissue,
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

Angiopoietin 1 is a 70-kDa secreted glycoprotein generated from vascular mural cells, pericytes, and certain other cells. Angiopoietin 1 participates in vascular differentiation through angiogenesis, which is the process of the growth and remodelling of existing vessels. Angiopoietin 1 is also involved in the maintenance and turnover of blood vessels in mature animals. Angiopoietin 1 binds to and activates the TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation, playing an important role in the regulation of angiogenesis. Overexpression of Angiopoietin 1 has been proven to occur in malignant glioblastoma, neuroblastoma, non-small cell lung cancer, and other tumors.

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:

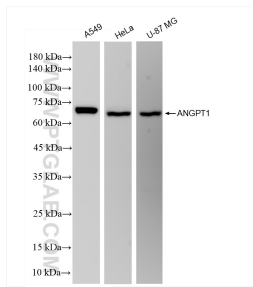
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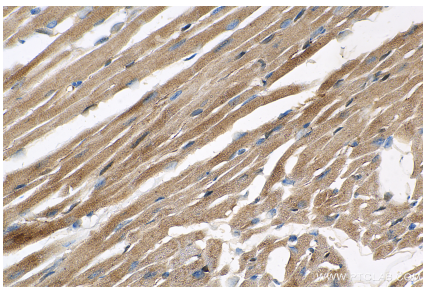
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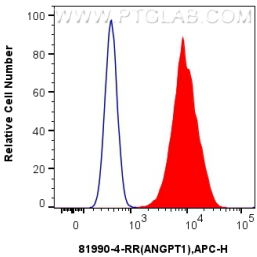
Selected Validation Data



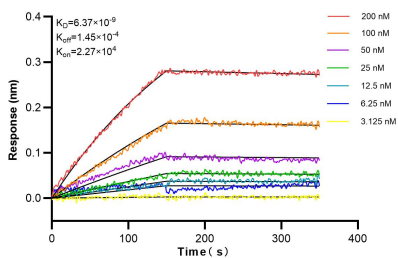
Various lysates were subjected to SDS PAGE followed by western blot with 81990-4-RR (Angiopoietin 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 81990-4-RR (Angiopoietin 1 antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug Angiopoietin 1 Recombinant antibody (81990-4-RR, Clone:240764D10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 81990-4-RR against Human ANGPT1 were performed. The affinity constant is 6.37 nM.