

For Research Use Only

# Angiopoietin 1 Recombinant antibody

Catalog Number:81990-4-RR



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>81990-4-RR                              | <b>GenBank Accession Number:</b><br>BC152411 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 ug/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>284                 | <b>CloneNo.:</b><br>240764D10                         |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q15389                 | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000     |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>angiopoietin 1          |   |
| <b>Immunogen Catalog Number:</b><br>AG18829                       | <b>Calculated MW:</b><br>498 aa, 58 kDa      |   |
|   | <b>Observed MW:</b><br>70 kDa                |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, FC (Intra), ELISA | <b>Positive Controls:</b><br>WB : A549 cells, HeLa cells, U-87 MG cells |
| <b>Species Specificity:</b><br>human                 |   |

## 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

\*\*\* 20ul sizes contain 0.1% BSA

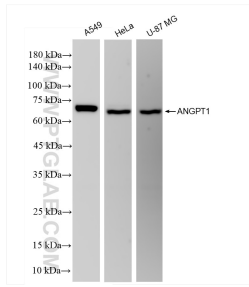
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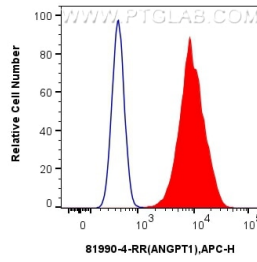
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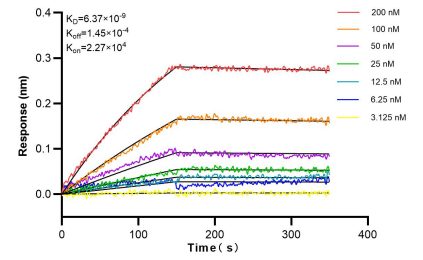
## Selected Validation Data



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.



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g Angiopoietin 1 Recombinant antibody (81990-4-RR, Clone:240764D10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 81990-4-RR against Human ANGPT1 were performed. The affinity constant is 6.37 nM.