

For Research Use Only

# ACVRL1 Polyclonal antibody

Catalog Number: 14745-1-AP

8 Publications



## Basic Information

### Catalog Number:

14745-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6449

### GenBank Accession Number:

BC042637

### GeneID (NCBI):

94

### UNIPROT ID:

P37023

### Full Name:

activin A receptor type II-like 1

### Calculated MW:

56 kDa

### Observed MW:

63 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, FC (Intra), IP

### Species Specificity:

human

### 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 : human placenta tissue,

IP : Jurkat cells,

IHC : human heart tissue, human lymphoma tissue

## Background Information

ACVRL1 (also known as ALK1) is a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. ACVRL1 is highly expressed in endothelial cells and has a critical role in the control of blood vessel development and repair (PMID: 8640225). Mutations in the ACVRL1 gene are associated with hemorrhagic telangiectasia type 2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yusuke Kimishima	34702814	Nat Commun	WB,FC
Houping Chen	33245175	Cell Biol Int	WB,IP
Yesheng Fu	34157307	Mol Cell	WB

## 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

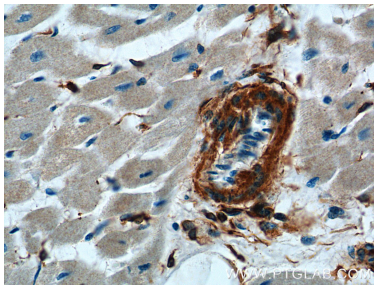
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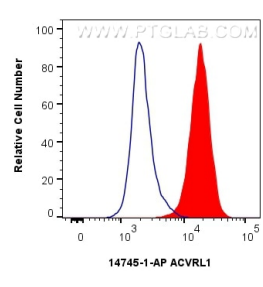
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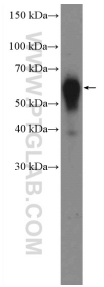
Selected Validation Data



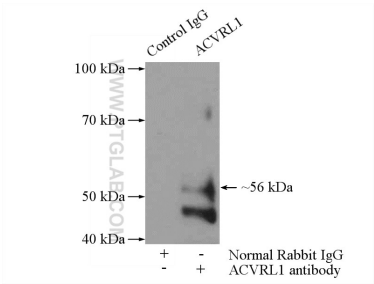
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14745-1-AP (ACVRL1 Antibody) at dilution of 1:200 (under 40x lens).



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug ACVRL1 Polyclonal antibody (14745-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



human placenta tissue were subjected to SDS PAGE followed by western blot with 14745-1-AP (ACVRL1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-ACVRL1 (IP:14745-1-AP, 4ug; Detection:14745-1-AP 1:300) with Jurkat cells lysate 2400ug.