

# ACVRL1 Polyclonal antibody

 Catalog Number: **14745-1-AP** **6 Publications**

## Basic Information

<b>Catalog Number:</b> 14745-1-AP	<b>GenBank Accession Number:</b> BC042637	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 94	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P37023	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> activin A receptor type II-like 1	IHC 1:100-1:400
<b>Immunogen Catalog Number:</b> AG6449	<b>Calculated MW:</b> 56 kDa	
	<b>Observed MW:</b> 63 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, FC, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IP, FC, IHC	<b>WB :</b> human placenta tissue,
<b>Species Specificity:</b> human	<b>IP :</b> Jurkat cells,
<b>Cited Species:</b> human, mouse	<b>IHC :</b> human heart tissue, human lymphoma tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

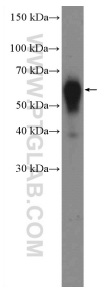
## Storage

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

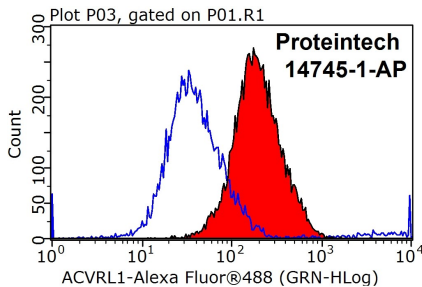
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

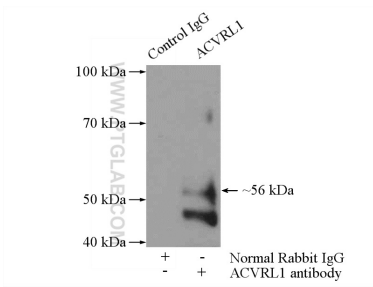
Selected Validation Data



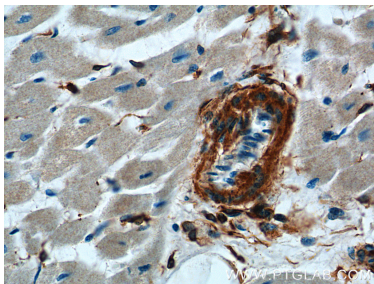
human placenta tissue were subjected to SDS PAGE followed by western blot with 14745-1-AP (ACVRL1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



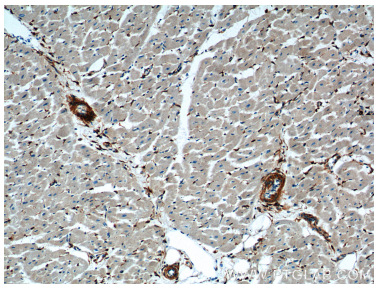
1X10<sup>6</sup> Jurkat cells were stained with 0.2ug ACVRL1 antibody (14745-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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



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



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14745-1-AP (ACVRL1 Antibody) at dilution of 1:200 (under 10x lens).