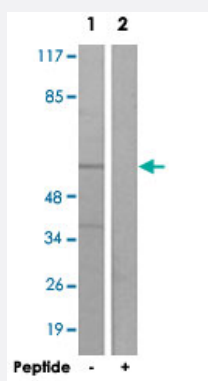


# ACVRL1 polyclonal antibody

Catalog # PAB18054

Size 100 ug

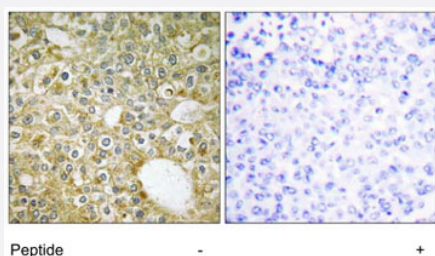
## Applications



### Western Blot (Cell lysate)

Western blot analysis of extracts from K-562 cells, using ACVRL1 polyclonal antibody (Cat # PAB18054).

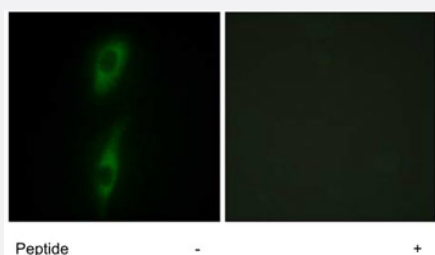
Peptide "+" means "with peptide blocking".



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using ACVRL1 polyclonal antibody (Cat # PAB18054).

Peptide "+" means "with peptide blocking".



### Immunofluorescence

Immunofluorescence analysis of HeLa cells, using ACVRL1 polyclonal antibody (Cat # PAB18054).

Peptide "+" means "with peptide blocking".

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of ACVRL1.

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>           | A synthetic peptide corresponding to human ACVRL1.                                                                                                                                             |
| <b>Host</b>                | Rabbit                                                                                                                                                                                         |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                                                                                                                                              |
| <b>Specificity</b>         | This antibody is specific to ACVRL1.                                                                                                                                                           |
| <b>Form</b>                | Liquid                                                                                                                                                                                         |
| <b>Recommend Usage</b>     | Western Blot (1:500~1:1000)<br>Immunohistochemistry (1:50~1:100)<br>Immunofluorescence (1:500~1:1000)<br>ELISA (1:20000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                                                                                                                                  |
| <b>Storage Instruction</b> | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                             |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                         |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from K-562 cells, using ACVRL1 polyclonal antibody (Cat # PAB18054).  
Peptide "+" means "with peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using ACVRL1 polyclonal antibody (Cat # PAB18054).  
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- Immunohistochemistry

- Immunofluorescence

Immunofluorescence analysis of HeLa cells, using ACVRL1 polyclonal antibody (Cat # PAB18054).  
Peptide "+" means "with peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ACVRL1

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">94</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Accession# | <a href="#">P37023</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Name          | ACVRL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Alias         | ACVRLK1, ALK-1, ALK1, HHT, HHT2, ORW2, SKR3, TSR-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Description   | activin A receptor type II-like 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Omim ID            | <a href="#">600376</a> <a href="#">601284</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Summary       | This gene encodes 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. The encoded protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2. [provided by RefSeq] |
| Other Designations | TGF-B superfamily receptor type II activin A receptor, type II-like kinase 1 serine/threonine-protein kinase receptor R3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Publication Reference

- [The Expression of Activin Receptor-Like Kinase 1 among Patients with Head and Neck Cancer.](#)

Chien CY, Chuang HC, Chen CH, Fang FM, Chen WC, Huang CC, Huang HY.

Otolaryngology-Head and Neck Surgery 2013 Jun; 148(6):965.

Application: IHC, Human, Human squamous cell carcinoma

- [The activin receptor-like kinase 1 gene: genomic structure and mutations in hereditary hemorrhagic telangiectasia type 2.](#)

Berg JN, Gallione CJ, Stenzel TT, Johnson DW, Allen WP, Schwartz CE, Jackson CE, Porteous ME, Marchuk DA.

American Journal of Human Genetics 1997 Jul; 61(1):60.

- [Identification of human activin and TGF beta type I receptors that form heteromeric kinase complexes with type II receptors.](#)

Attisano L, Carcamo J, Ventura F, Weis FM, Massague J, Wrana JL.

Cell 1993 Nov; 75(4):671.

- [Activin receptor-like kinases: a novel subclass of cell-surface receptors with predicted serine/threonine kinase activity.](#)

ten Dijke P, Ichijo H, Franzen P, Schulz P, Saras J, Toyoshima H, Heldin CH, Miyazono K.

Oncogene 1993 Aug; 8(10).

## Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

## Disease

- [Anemia](#)
- [Arteriovenous Malformations](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Central Nervous System Vascular Malformations](#)
- [Chromosome Aberrations](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Epistaxis](#)
- [Genetic Predisposition to Disease](#)
- [Heart Diseases](#)
- [Hyperparathyroidism](#)
- [Hyperplasia](#)
- [Hypertension](#)
- [Intracranial Aneurysm](#)
- [Intracranial Arteriovenous Malformations](#)

- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Telangiectasia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)