

## Rabbit ACVR1 Polyclonal Antibody | anti-ACVR1 antibody

ACVR1 Antibody (Center)

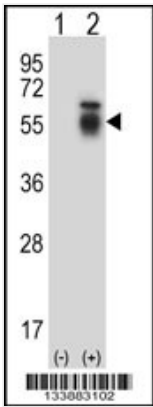
|                               |                       |                                                                     |                                            |
|-------------------------------|-----------------------|---------------------------------------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA288118</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human Predicted Reactivity: Bovine, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|---------------------------------------------------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

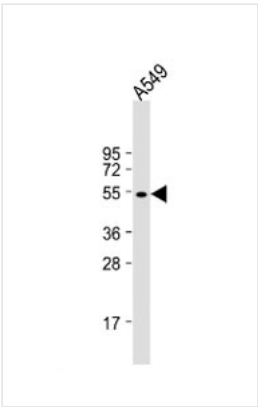
ACVR1; Polyclonal Antibody; ACVR1 Antibody (Center); Activin receptor type-1; Activin receptor type I; ACTR-I; Activin receptor-like kinase 2; ALK-2; Serine/threonine-protein kinase receptor R1; SKR1; TGF-B superfamily receptor type I; TSR-I; ACVRLK2; anti-ACVR1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                      | Human<br>Predicted Reactivity: Bovine, Mouse, Rat                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                     | This ACVR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-161 amino acids from the Central region of human ACVR1.                                                                                                                                                                                                                      |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                             |
| Sequence Positions                              | 132-161                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Length                                 | 509                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-ACVR1 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                 |
| Calculated MW                                   | 57153                                                                                                                                                                                                                                                                                                                                                                                    |
| Function                                        | On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin. May be involved for left-right pattern formation during embryogenesis (By similarity). |
| Preparation and Storage                         | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                 |



**WB (Western Blot)**  
Western blot analysis of ACVR1 (arrow) using rabbit polyclonal ACVR1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected(Lane 1) or transiently transfected (Lane 2) with the ACVR1 gene.



**Application Data**  
Anti-ACVR1 Antibody (Center) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFD/MTBST

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ACVR1 antibody | Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. |
| Product Categories/Family for anti-ACVR1 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| References                                          | Canzian, F., et al. Hum. Mol. Genet. 19(19):3873-3884(2010)<br>Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)<br>Song, G.A., et al. J. Biol. Chem. 285(29):22542-22553(2010)<br>Herrera, B., et al. Cancer Res. 69(24):9254-9262(2009)<br>Jung, B., et al. PLoS ONE 4 (12), E8308 (2009) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 4501895                                       |
| NCBI GeneID                      | 90                                            |
| NCBI Accession #                 | NP_001096.1; NP_001104537.1                   |
| NCBI GenBank Nucleotide #        | NM_001105.4                                   |
| UniProt Accession #              | Q04771                                        |
| NCBI Official Full Name          | activin receptor type-1                       |
| NCBI Official Synonym Full Names | activin A receptor, type I                    |
| NCBI Official Symbol             | ACVR1                                         |
| NCBI Official Synonym Symbols    | FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2 |
| NCBI Protein Information         | activin receptor type-1                       |

|                            |                                     |
|----------------------------|-------------------------------------|
| UniProt Protein Name       | Activin receptor type-1             |
| UniProt Gene Name          | <b>ACVR1</b>                        |
| UniProt Synonym Gene Names | ACVRLK2; ACTR-I; ALK-2; SKR1; TSR-I |
| UniProt Entry Name         | ACVR1_HUMAN                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/acvr1-antibody-western-blot-elisa/288118>