

## Rabbit Activin A Receptor Type IC (ACVR1C) Polyclonal Antibody | anti-ACVR1C antibody

Activin A Receptor Type IC (ACVR1C) Antibody (N-term A48)

|                               |                       |                                                          |                                                                  |
|-------------------------------|-----------------------|----------------------------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA284445</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human (Predicted Reactivity: Mouse)</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

Activin A Receptor Type IC (ACVR1C); Polyclonal Antibody; Activin A Receptor Type IC (ACVR1C) Antibody (N-term A48); Activin receptor type-1C; Activin receptor type IC; ACTR-IC; Activin receptor-like kinase 7; ALK-7; ACVR1C HGNC:18123; anti-ACVR1C antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                           |
| Reactivity                                       | Human (Predicted Reactivity: Mouse)                                                                                                                                                                                              |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                       |
| Isotype                                          | Rabbit Ig                                                                                                                                                                                                                        |
| Specificity                                      | This Activin A Receptor Type IC (ACVR1C) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-62 amino acids from the N-terminal region of human Activin A Receptor Type IC (ACVR1C). |
| Purity/Purification                              | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                        |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.                                        |
| Concentration                                    | Vial Concentration: 2 (varies by lot)                                                                                                                                                                                            |
| Sequence Positions                               | 33-62                                                                                                                                                                                                                            |
| Sequence Length                                  | 443                                                                                                                                                                                                                              |
| Applicable Applications for anti-ACVR1C antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                             |
| Antigen Type                                     | Synthetic Peptide                                                                                                                                                                                                                |
| Antigen Source                                   | HUMAN                                                                                                                                                                                                                            |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                           |

### IMAGES



#### IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



#### WB (Western Blot)

Western blot analysis of anti-ACVR1C Antibody (N-term A48) in HepG2 and Hela cell line lysate (35ug/lane). ACVR1C (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ACVR1C antibody | ACVR1C, a serine/threonine protein kinase, is a type I receptor for the TGFB family of signaling molecules. The receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors. ACVR1C is a receptor for activin AB, activin B and NODAL. This protein plays a role in cell differentiation, growth arrest and apoptosis. |
| Product Categories/Family for anti-ACVR1C antibody   | Cancer; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                           | Munir, S., et al., J. Biol. Chem. 279(30):31277-31286 (2004).<br>Kim, B.C., et al., J. Biol. Chem. 279(27):28458-28465 (2004).<br>Roberts, H.J., et al., Biol. Reprod. 68(5):1719-1726 (2003).<br>Tsuchida, K., et al., Mol. Cell. Endocrinol. 220 (1-2), 59-65 (2004) (): ().<br>Bondestam, J., et al., Cytogenet. Cell Genet. 95 (3-4), 157-162 (2001) (): ().                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| NCBI GI #                        | 161333835                                                   |
| NCBI GeneID                      | 130399                                                      |
| NCBI Accession #                 | NP_001104501.1; NP_001104502.1; NP_001104503.1; NP_660302.2 |
| NCBI GenBank Nucleotide #        | NM_001111031.1                                              |
| UniProt Accession #              | Q8NER5; Q4ZFZ8; Q86UL1; Q86UL2; Q8TBG2                      |
| Molecular Weight                 | 54871                                                       |
| NCBI Official Full Name          | activin receptor type-1C isoform 2                          |
| NCBI Official Synonym Full Names | activin A receptor, type IC                                 |
| NCBI Official Symbol             | ACVR1C                                                      |
| NCBI Official Synonym Symbols    | ALK7; ACVRLK7                                               |
| NCBI Protein Information         | activin receptor type-1C                                    |
| UniProt Protein Name             | Activin receptor type-1C                                    |
| UniProt Gene Name                | ACVR1C                                                      |
| UniProt Synonym Gene Names       | ACTR-IC; ALK-7                                              |
| UniProt Entry Name               | ACV1C_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/activin-a-receptor-type-ic-acvr1c-antibody-immunohistochemistry-western-blot-elisa/284445>