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# Anti-ACVR2A Picoband Antibody

**Catalog # ABO11645**

## Specification

### Anti-ACVR2A Picoband Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC-P** |
| Primary Accession | P27037 |
| Host | **Rabbit** |
| Reactivity | **Human, Rat** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Activin receptor type-2A(ACVR2A) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-ACVR2A Picoband Antibody - Additional Information

**Gene ID** 92

**Other Names**
Activin receptor type-2A, 2.7.11.30, Activin receptor type IIA, ACTR-IIA, ACTRIIA, ACVR2A, ACVR2

**Calculated MW**
57848 MW KDa

**Application Details**
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>
<br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**
Membrane; Single-pass type I membrane protein.

**Protein Name**
Activin receptor type-2A

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**
E. coli-derived human ACVR2A recombinant protein (Position: Q421-L513). Human ACVR2A shares 100% and 98.9% amino acid (aa) sequence identity with mouse and rat ACVR2A, respectively.

**Purification**
Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

| | |
|---|---|
| Storage | **At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.** |

## Anti-ACVR2A Picoband Antibody - Protein Information

**Name** ACVR2A (HGNC:173)

**Synonyms** ACVR2

**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 A, activin B and inhibin A (PubMed:<a href="http://www.uniprot.org/citations/17911401" target="_blank">17911401</a>, PubMed:<a href="http://www.uniprot.org/citations/10652306" target="_blank">10652306</a>). Mediates induction of adipogenesis by GDF6 (By similarity).

**Cellular Location**
Cell membrane {ECO:0000250|UniProtKB:P27038}; Single-pass type I membrane protein

## Anti-ACVR2A Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-ACVR2A Picoband Antibody - Images

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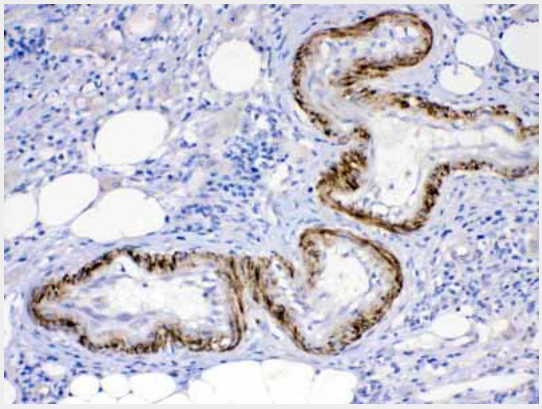
Western blot analysis of ACVR2A expression in rat kidney extract (lane 1) and HELA whole cell lysates (lane 2). ACVR2A at 75KD was detected using rabbit anti- ACVR2A Antigen Affinity purified polyclonal antibody (Catalog # ABO11645) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .



ACVR2A was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- ACVR2A Antigen Affinity purified polyclonal antibody (Catalog # ABO11645) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

**Anti-ACVR2A Picoband Antibody - Background**

Activin receptor type-2A is a protein that in humans is encoded by the ACVR2A gene. ACVR2A is an activin type 2 receptor. This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene.