

Anti-ACVR2A Picoband Antibody
Catalog # ABO11645**Specification**

Anti-ACVR2A Picoband Antibody - Product Information

Application	WB, IHC
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

Western blot, 0.1-0.5 µg/ml, Human, Rat

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 Na₃.

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 reconstitution, 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:17911401). Mediates induction of adipogenesis by GDF6 (By similarity).

Cellular Location

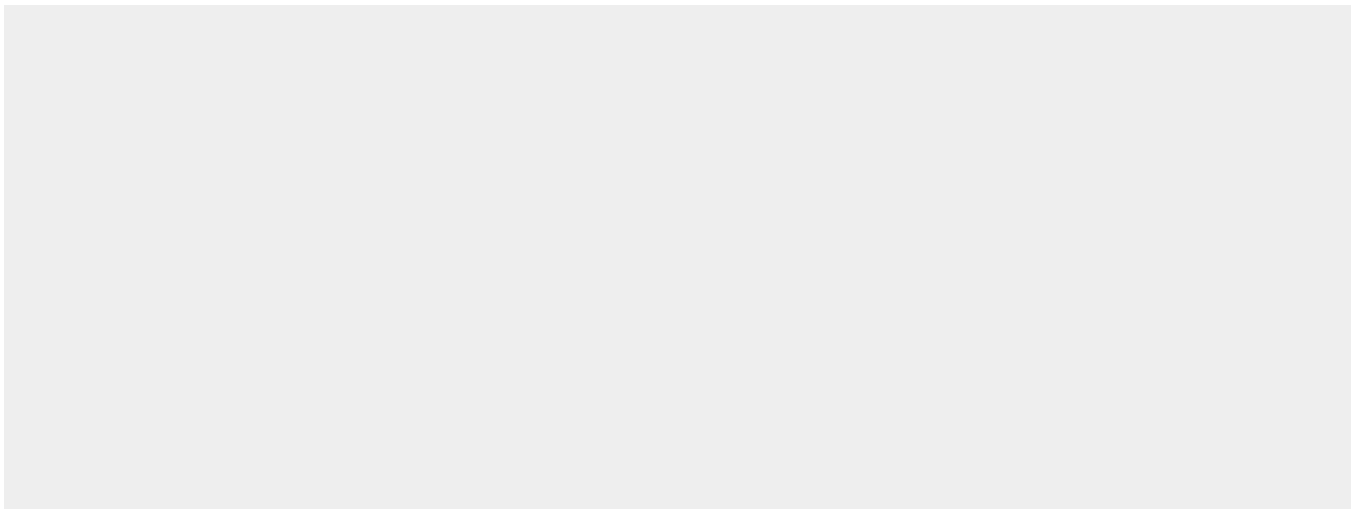
Cell membrane {ECO:0000250|UniProtKB:P27038}; Single-pass type I membrane protein

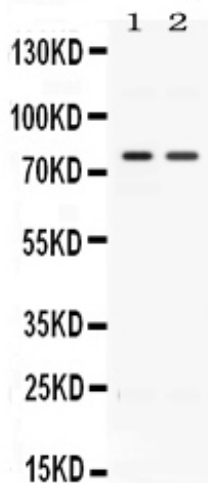
Anti-ACVR2A Picoband Antibody - Protocols

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

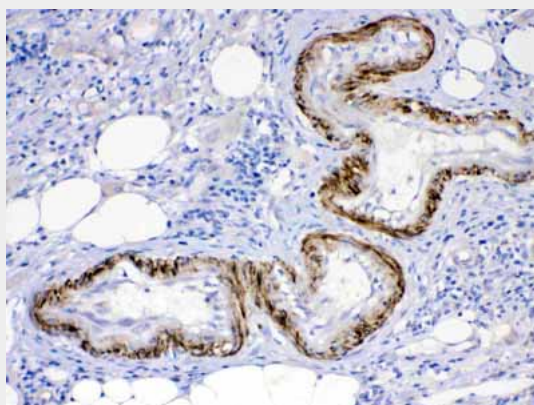
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ACVR2A Picoband Antibody - Images





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 µg/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 µg/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.