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Datasheet for ABIN2782108  
**anti-ACVR1 antibody (N-Term)**

4 Images

### Overview

Quantity:	100 µL
Target:	ACVR1 (ACRV1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Horse, Cow, Rabbit, Guinea Pig, Goat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR1 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACVR1
Sequence:	EGLSCGNEDH CEGQQCFSSL SINDGFHVYQ KGCFQVYEQG KMTCKTPPSP
Predicted Reactivity:	Cow: 100%, Goat: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ACVR1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

### Target Details

Target:	ACVR1 (ACRV1)
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## Target Details

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Alternative Name: [ACVR1 \(ACRV1 Products\)](#)

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Background: Activin 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. ACVR1 is activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. 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. 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.

Alias Symbols: ACTRI, ACVRLK2, ALK2, FOP, SKR1, TSRI, ACVR1A

Protein Interaction Partner: UBC, USP15, BMPR1A, ACVR1, INHBA, ACVR2A, PEG10, SMAD6, SMAD7, BAMBI, SMURF1, IGSF1, TSC22D1, TGFBR1, DCAF6, FGD6, FCHO1, PLEK, TTC17, RHEBL1, WDR61, RASL12, RASD2, PLEKHJ1, CDK14, NEK8, DUSP13, NUA2, FKBP4, RAB6B, RAB17, UBXN1, FBXO30, RHOJ, PLEKHB1, UB

Protein Size: 509

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Molecular Weight: 55 kDa

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Gene ID: 90

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NCBI Accession: [NM\\_001105, NP\\_001096](#)

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UniProt: [Q04771](#)

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## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 509 AA

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

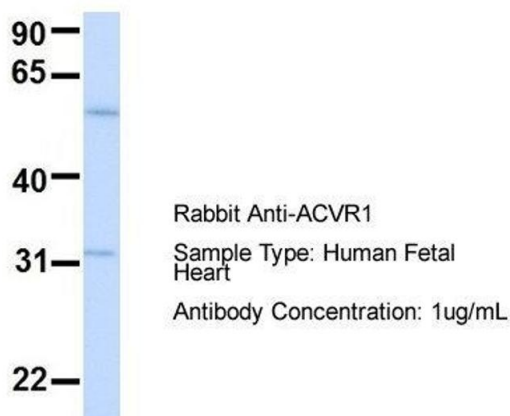
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images

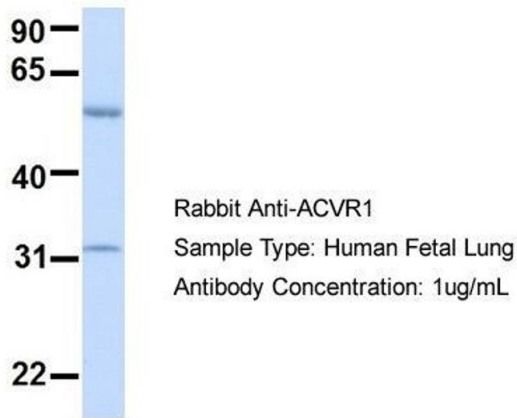
### ACVR1



### Western Blotting

**Image 1.** Host: Rabbit Target Name: ACVR1 Sample Type: Human Fetal Heart Antibody Dilution: 1.0ug/ml

# ACVR1



## Western Blotting

**Image 2.** Host: Rabbit Target Name: ACVR1 Sample Type: Human Fetal Lung Antibody Dilution: 1.0 µg/ml



## Western Blotting

**Image 3.** WB Suggested Anti-ACVR1 Antibody Titration: 0.2-1 µg/ml ELISA Titer: 1:312500 Positive Control: Transfected 293T

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2782108.