

## Datasheet for ABIN7467384 **anti-ACVR1 antibody**



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### Overview

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                    |
| Target:      | ACVR1 (ACRV1)                                                             |
| Reactivity:  | Human                                                                     |
| Host:        | Rabbit                                                                    |
| Clonality:   | Polyclonal                                                                |
| Application: | Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

### Product Details

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:        | Recombinant protein encompassing a sequence within the center region of human Activin Receptor type IA. The exact sequence is proprietary. |
| Isotype:          | IgG                                                                                                                                        |
| Cross-Reactivity: | Mouse, Rat                                                                                                                                 |
| Purification:     | Purified by antigen-affinity chromatography.                                                                                               |

### Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | ACVR1 (ACRV1)                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Name: | activin A receptor type 1 ( <a href="#">ACRV1 Products</a> )                                                                                                                                                                                                                                                                                                                              |
| Background:       | Activin A receptor type 1 , ACTRI , ACVR1A , ACVRLK2 , ALK2 , FOP , SKR1 , TSRI,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 |

## Target Details

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. [provided by RefSeq]

Molecular Weight: 57 kDa

Gene ID: 90

UniProt: [Q04771](#)

## Application Details

Application Notes: WB: 1:500-1:3000. IHC-Fr: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: rat liver , mouse heart

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.9 mg/mL

Buffer: 1XPBS ( pH 7), 1 % BSA, 20 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.