

Datasheet for ABIN392240
anti-ACVR1 antibody (AA 132-162)

4 Images

2 Publications

[Go to Product page](#)

Overview

| | |
|----------------------|--|
| Quantity: | 400 µL |
| Target: | ACVR1 (ACRV1) |
| Binding Specificity: | AA 132-162 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ACVR1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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|-----------------------|---|
| Immunogen: | This Activin Receptor Type IA (ACVR1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-162 amino acids from the Central region of human Activin Receptor Type IA (ACVR1). |
| Clone: | RB03507-03508 |
| Isotype: | Ig Fraction |
| Predicted Reactivity: | B, M, Rat |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

Target Details

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|---------|---------------|
| Target: | ACVR1 (ACRV1) |
|---------|---------------|

Target Details

| | |
|-------------------|--|
| Alternative Name: | Activin Receptor Type IA (ACVR1) (ACRV1 Products) |
| Background: | 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. ACVR1 (activin A type I receptor) signals a particular transcriptional response in concert with activin type II receptors. |
| Molecular Weight: | 57153 |
| Gene ID: | 90 |
| NCBI Accession: | NP_001096 , NP_001104537 |
| UniProt: | Q04771 |

Application Details

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|--------------------|---|
| Application Notes: | WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100 |
| Restrictions: | For Research Use only |

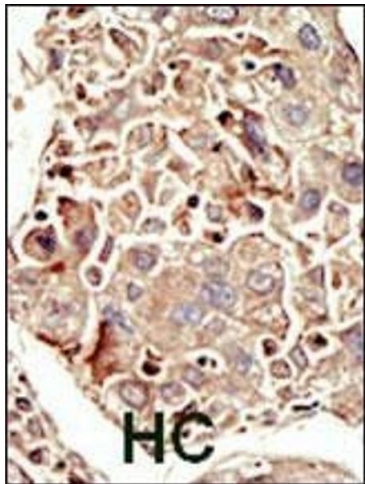
Handling

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|--------------------|--|
| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C, -20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

Publications

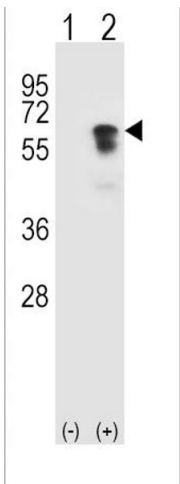
Product cited in: Chen, Hou, Fan, Jin, Wang: "Sonic hedgehog protein regulates fibroblast growth factor 8 expression in metanephric explant culture from BALB/c mice: Possible mechanisms associated with renal morphogenesis." in: **Molecular medicine reports**, Vol. 14, Issue 4, pp. 2929-36, (2017) ([PubMed](#)).

Images



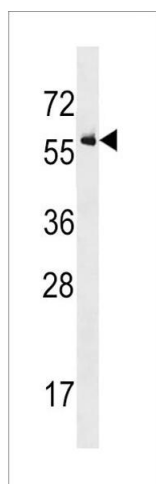
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of ACVR1 (arrow) using rabbit polyclonal ACVR1 Antibody (ABIN392240 and ABIN2841931). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ACVR1 gene.



Western Blotting

Image 3. ACVR1 Antibody (ABIN392240 and ABIN2841931) western blot analysis in cell line lysates (35 µg/lane). This demonstrates the ACVR1 antibody detected the ACVR1 protein (arrow).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN392240.