

Datasheet for ABIN391154
anti-ACVR1 antibody (AA 138-170)[Go to Product page](#)

3 Images

Overview

| | |
|----------------------|--|
| Quantity: | 400 µL |
| Target: | ACVR1 (ACRV1) |
| Binding Specificity: | AA 138-170 |
| 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

| | |
|-----------------------|---|
| Immunogen: | This Activin Receptor Type IA (ACVR1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-170 amino acids from the Central region of human Activin Receptor Type IA (ACVR1). |
| Clone: | RB6510 |
| 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

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

Target Details

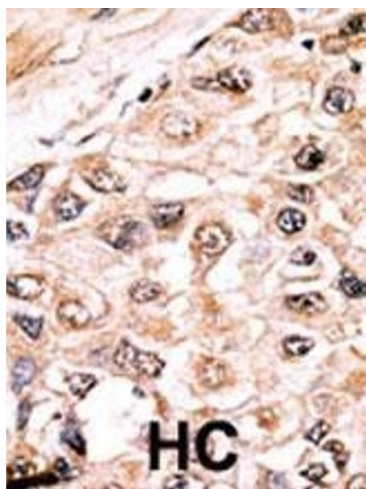
| | |
|-------------------|--|
| Alternative Name: | Activin Receptor Type IA (ACVR1) (ACRV1 Products) |
| Background: | Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins 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 is an activin A type I receptor which 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. IHC-P: 1:50~100 |
| Restrictions: | For Research Use only |

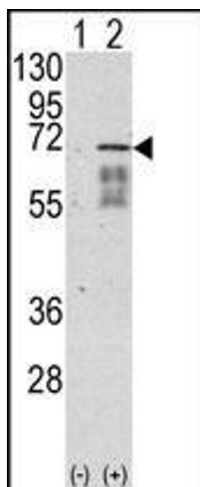
Handling

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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 |



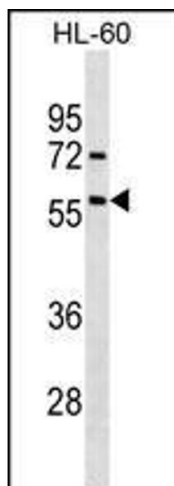
Immunohistochemistry (Paraffin-embedded Sections)

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 AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of ACVR1 (arrow) using rabbit polyclonal ACVR1 Antibody (Center) (ABIN391154 and ABIN2841264). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the ACVR1 gene (Lane 2) (Origene Technologies).



Western Blotting

Image 3. ACVR1 Antibody (ABIN391154 and ABIN2841264) western blot analysis in HL-60 cell line lysates (35 µg/lane). This demonstrates the ACVR1 antibody detected the ACVR1 protein (arrow).