Datasheet for ABIN391154

anti-ACVR1 antibody (AA 138-170)

3 Images

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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

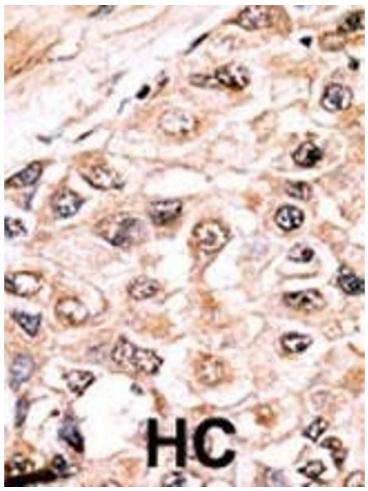
Alternative Name:	Activin Receptor Type IA (ACVR1) (ACRV1 Products)
Background:	Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex 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

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

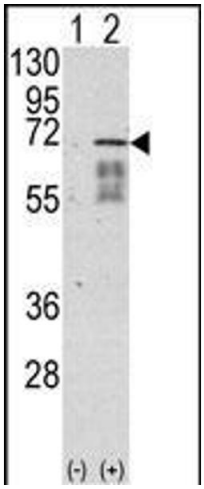
Handling

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



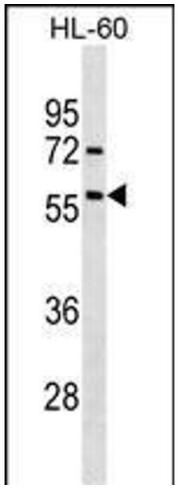
Immunohistochemistry (Paraffin-embedded Sections)

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).