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Datasheet for ABIN391157

## anti-ACVR1C/ALK7 antibody (N-Term)

2 Images

1 Publication

### Overview

Quantity:	400 µL
Target:	ACVR1C/ALK7 (ACVR1C)
Binding Specificity:	AA 33-62, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR1C/ALK7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	This Activin A Receptor Type IC (ACVR1C) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-62 amino acids from the N-terminal region of human Activin A Receptor Type IC (ACVR1C).
Clone:	RB8195
Isotype:	Ig Fraction
Predicted Reactivity:	M
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Target Details

Target:	ACVR1C/ALK7 (ACVR1C)
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## Target Details

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Alternative Name:	Activin A Receptor Type IC (ACVR1C) ( <a href="#">ACVR1C Products</a> )
Background:	ACVR1C, a serine/threonine protein kinase, is a type I receptor for the TGFB family of signaling molecules. The receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors. ACVR1C is a receptor for activin AB, activin B and NODAL. This protein plays a role in cell differentiation, growth arrest and apoptosis.
Molecular Weight:	54871
Gene ID:	130399
NCBI Accession:	<a href="#">NP_001104501</a> , <a href="#">NP_001104502</a> , <a href="#">NP_001104503</a> , <a href="#">NP_660302</a>
UniProt:	<a href="#">Q8NER5</a>
Pathways:	<a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

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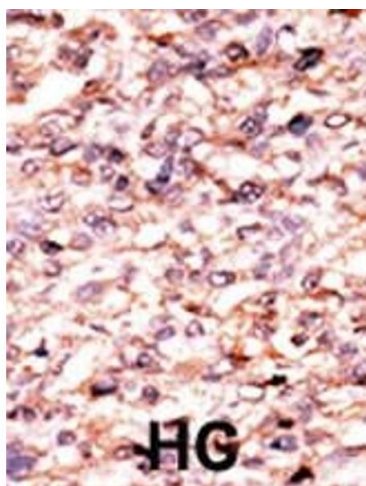
Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

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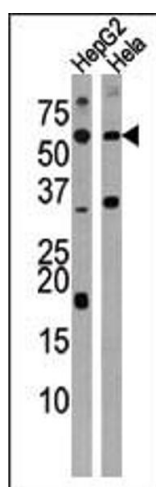
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	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

Product cited in: Humbert, Navaratnam, Augert, Da Costa, Martien, Wang, Martinez, Abbadie, Carling, de Launoit, Gil, Bernard: "Regulation of ploidy and senescence by the AMPK-related kinase NUA1." in: **The EMBO journal**, Vol. 29, Issue 2, pp. 376-86, (2010) ([PubMed](#)).



#### 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 anti-ACVR1C Antibody (N-term A48) (ABIN391157 and ABIN2841267) in HepG2 and HeLa cell line lysate (35 µg/lane). ACVR1C (arrow) was detected using the purified Pab.