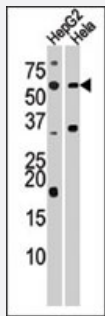


ACVR1C polyclonal antibody

Catalog # PAB2641

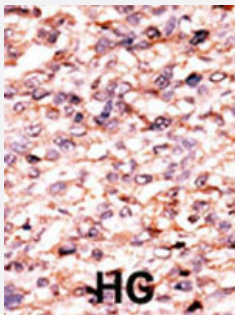
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ACVR1C polyclonal antibody (Cat # PAB2641) in HepG2 and Hela cell line lysate (35 ug/lane). ACVR1C (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with ACVR1C polyclonal antibody (Cat # PAB2641), 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. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACVR1C.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ACVR1C.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — ACVR1C

Entrez GeneID	130399
Protein Accession#	NP_660302.Q8NER5
Gene Name	ACVR1C
Gene Alias	ACVRLK7, ALK7
Gene Description	activin A receptor, type IC
Omim ID	608981
Gene Ontology	Hyperlink
Gene Summary	ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM]
Other Designations	activin receptor-like kinase 7

Publication Reference

- [Nodal and ALK7 inhibit proliferation and induce apoptosis in human trophoblast cells.](#)

Munir S, Xu G, Wu Y, Yang B, Lala PK, Peng C.

The Journal of Biological Chemistry 2004 Jul; 279(30):31277.

- [Activin receptor-like kinase-7 induces apoptosis through activation of MAPKs in a Smad3-dependent mechanism in hepatoma cells.](#)

Kim BC, van Gelder H, Kim TA, Lee HJ, Baik KG, Chun HH, Lee DA, Choi KS, Kim SJ.

The Journal of Biological Chemistry 2004 Jul; 279(27):28458.

- [Identification of novel isoforms of activin receptor-like kinase 7 \(ALK7\) generated by alternative splicing and expression of ALK7 and its ligand, Nodal, in human placenta.](#)

Roberts HJ, Hu S, Qiu Q, Leung PC, Caniggia I, Gruslin A, Tsang B, Peng C.

Biology of Reproduction 2003 May; 68(5):1719.

Application: WB-Ti, Human, Placenta

Pathway

- [Adherens junction](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [TGF-beta signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)

- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)