

Datasheet

ACVR1C polyclonal antibody

Catalog Number: PAB2641

Regulatory Status: For research use only (RUO)

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

Applications: IHC-P, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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.

Entrez GeneID: 130399

Gene Symbol: ACVR1C

Gene Alias: ACVRLK7, ALK7

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]

References:

1. Nodal and ALK7 inhibit proliferation and induce apoptosis in human trophoblast cells. Munir S, Xu G, Wu Y, Yang B, Lala PK, Peng C. J Biol Chem. 2004 Jul 23;279(30):31277-86. Epub 2004 May 18.
2. 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. J Biol Chem. 2004 Jul 2;279(27):28458-65. Epub 2004 Apr 23.
3. 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. Biol Reprod. 2003 May;68(5):1719-26. Epub 2002 Dec 27.