

Rabbit Activin Receptor Type IA (ACVR1) Polyclonal Antibody | anti-ACVR1 antibody

Activin Receptor Type IA (ACVR1) Antibody (Center R147)

CATALOG # AAA287336	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Bovine, Mouse, Rat)	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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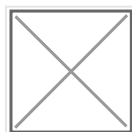
PRODUCT SYNONYMS

Activin Receptor Type IA (ACVR1); Polyclonal Antibody; Activin Receptor Type IA (ACVR1) Antibody (Center R147); Activin receptor type-1; Activin receptor type I; ACTR-I; Activin receptor-like kinase 2; ALK-2; Serine/threonine-protein kinase receptor R1; SKR1; TGF-B superfamily receptor type I; TSR-I; ACVR1; ACVRLK2; anti-ACVR1 antibody

PRODUCT SPECIFICATIONS

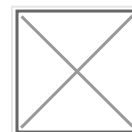
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Activin Receptor Type IA (ACVR1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-162 amino acids from the Central region of human Activin Receptor Type IA (ACVR1).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	132-162
Sequence Length	509
Applicable Applications for anti-ACVR1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.



WB (Western Blot)

ACVR1 Antibody (R147) western blot analysis in U937 cell line lysates (35ug/lane). This demonstrates the ACVR1 antibody detected the ACVR1 protein (arrow).

**WB (Western Blot)**

Western blot analysis of ACVR1 (arrow) using rabbit polyclonal ACVR1 Antibody (R147). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ACVR1 gene.

**WB (Western Blot)**

Western blot analysis of lysate from HepG2 cell line, using ACVR1 Antibody (R147). AAA287336 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

Related Product Information for anti-ACVR1 antibody	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 (activin A type I receptor) signals a particular transcriptional response in concert with activin type II receptors.
Product Categories/Family for anti-ACVR1 antibody	Crown Antibodies ; Signal Transduction
References	Schneider-Kolsky, M.E., et al., Placenta 23(4):294-302 (2002). Roijer, E., et al., Mamm. Genome 9(3):266-268 (1998). Attisano, L., et al., Cell 75(4):671-680 (1993). ten Dijke, P., et al., Oncogene 8(10):2879-2887 (1993). Matsuzaki, K., et al., J. Biol. Chem. 268(17):12719-12723 (1993).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501895
NCBI GeneID	90
NCBI Accession #	NP_001096.1 ; NP_001104537.1
NCBI GenBank Nucleotide #	NM_001105.4
UniProt Accession #	Q04771
Molecular Weight	57153
NCBI Official Full Name	activin receptor type-1
NCBI Official Synonym Full Names	activin A receptor, type I
NCBI Official Symbol	ACVR1
NCBI Official Synonym Symbols	FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2
NCBI Protein Information	activin receptor type-1
UniProt Protein Name	Activin receptor type-1
UniProt Gene Name	ACVR1
UniProt Synonym Gene Names	ACVRLK2; ACTR-I; ALK-2; SKR1; TSR-I
UniProt Entry Name	ACVR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

