

Rabbit ACVR1 Polyclonal Antibody | anti-ACVR1 antibody

ACVR1 Antibody (Center)

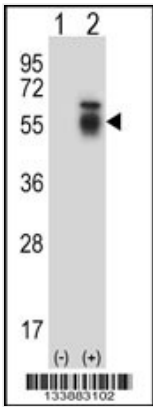
CATALOG # AAA288118	HOST Rabbit	REACTIVITY Human Predicted Reactivity: Bovine, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

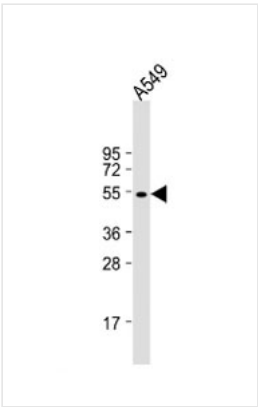
ACVR1; Polyclonal Antibody; ACVR1 Antibody (Center); Activin receptor type-1; Activin receptor type I; ACTR-I; Activin receptor-like kinase 2; ALK-2; Serine/threonine-protein kinase receptor R1; SKR1; TGF-B superfamily receptor type I; TSR-I; ACVRLK2; anti-ACVR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Bovine, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ACVR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-161 amino acids from the Central region of human ACVR1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	132-161
Sequence Length	509
Applicable Applications for anti-ACVR1 antibody	ELISA, WB (Western Blot)
Calculated MW	57153
Function	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin. May be involved for left-right pattern formation during embryogenesis (By similarity).
Preparation and Storage	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.



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



Application Data
Anti-ACVR1 Antibody (Center) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFDm/TBST

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. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive.
Product Categories/Family for anti-ACVR1 antibody	Signal Transduction
References	Canzian, F., et al. Hum. Mol. Genet. 19(19):3873-3884(2010) Shimada, M., et al. Hum. Genet. 128(4):433-441(2010) Song, G.A., et al. J. Biol. Chem. 285(29):22542-22553(2010) Herrera, B., et al. Cancer Res. 69(24):9254-9262(2009) Jung, B., et al. PLoS ONE 4 (12), E8308 (2009) :

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
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/acvr1-antibody-western-blot-elisa/288118>