

Rabbit Activin A Receptor Type IB (ACVR1B) Polyclonal Antibody | anti-ACVR1B antibody

Activin A Receptor Type IB (ACVR1B) Antibody (Center)

CATALOG # AAA288832	HOST Rabbit	REACTIVITY Human, mouse (Predicted Reactivity: Rat)	APPLICATIONS Western Blot, ELISA, Flow Cytometry, Functional Assay
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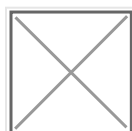
PRODUCT SYNONYMS

Activin A Receptor Type IB (ACVR1B); Polyclonal Antibody; Activin A Receptor Type IB (ACVR1B) Antibody (Center); Activin receptor type-1B; Activin receptor type IB; ACTR-IB; Activin receptor-like kinase 4; ALK-4; Serine/threonine-protein kinase receptor R2; SKR2; ACVR1B; ACVR1B; ALK4; anti-ACVR1B antibody

PRODUCT SPECIFICATIONS

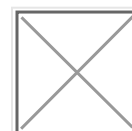
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Activin A Receptor Type IB (ACVR1B) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-164 amino acids from the Central region of human Activin A Receptor Type IB (ACVR1B).
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 purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	134-164
Sequence Length	505
Applicable Applications for anti-ACVR1B antibody	WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Antigen Type	Synthetic Peptide
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



WB (Western Blot)

The anti-ACVR1B Pab is used in Western blot to detect ACVR1B in Jurkat (1) and mouse kidney (2) tissue lysates.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 293 cells using Activin A Receptor Type IB (ACVR1B) Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL INFORMATION

Related Product Information for anti-ACVR1B 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 a 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. The gene for ACVR1B (activin A type IB receptor) is composed of 11 exons. Alternative splicing and alternative polyadenylation result in 3 fully described transcript variants. The mRNA expression of variants 1, 2, and 3 is confirmed, and a potential fourth variant contains an alternative exon 8 and lacks exons 9 through 11, but its mRNA expression has not been confirmed.
Product Categories/Family for anti-ACVR1B antibody	Signal Transduction
References	Harrison, C.A., et al., J. Biol. Chem. 278(23):21129-21135 (2003). Mukasa, C., et al., Endocrinology 144(4):1603-1611 (2003). Danila, D.C., et al., J. Clin. Endocrinol. Metab. 87(10):4741-4746 (2002). Schneider-Kolsky, M.E., et al., Placenta 23(4):294-302 (2002). Rojer, E., et al., Mamm. Genome 9(3):266-268 (1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757720
NCBI GeneID	91
NCBI Accession #	NP_004293.1; NP_064732.3; NP_064733.3
NCBI GenBank Nucleotide #	NM_004302.4
UniProt Accession #	P36896; Q15479; Q15480; Q15481; Q15482; B7Z5L8; B7Z5W5
Molecular Weight	56807
NCBI Official Full Name	activin receptor type-1B isoform a
NCBI Official Synonym Full Names	activin A receptor, type IB
NCBI Official Symbol	ACVR1B
NCBI Official Synonym Symbols	ALK4; SKR2; ACTRIB; ACVRLK4
NCBI Protein Information	activin receptor type-1B
UniProt Protein Name	Activin receptor type-1B
UniProt Gene Name	ACVR1B
UniProt Synonym Gene Names	ACVRLK4; ALK4; ACTR-IB; ALK-4; SKR2
UniProt Entry Name	ACV1B_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.