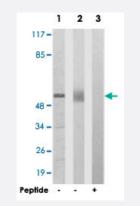
ACVR1B polyclonal antibody

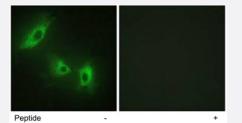
Catalog # PAB18053 Size 100 ug

Applications



Western Blot

Western blot analysis of extracts from 293 cells (Lane 1) and mouse liver cells (Lane 2 and lane 3), using ACVR1B polyclonal antibody (Cat # PAB18053). Peptide "+" means "with peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, using ACVR1B polyclonal antibody (Cat # PAB18053). Peptide "+" means "with peptide blocking".

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACVR1B.
Immunogen	A synthetic peptide corresponding to amino acids 73-122 of human ACVR1B.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to ACVR1B.
Form	Liquid



Product Information

Purification	Affinity purification
Recommend Usage	Western Blot (1:500~1:1000)
	Immunofluorescence (1:500~1:1000)
	ELISA (1:5000)
	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C.
	Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul
	d be handled by trained staff only.

Applications

Western Blot

Western blot analysis of extracts from 293 cells (Lane 1) and mouse liver cells (Lane 2 and lane 3), using ACVR1B polyclonal antibody (Cat # PAB18053).

Peptide "+" means "with peptide blocking".

Immunofluorescence

Immunofluorescence analysis of HeLa cells, using ACVR1B polyclonal antibody (Cat # PAB18053). Peptide "+" means "with peptide blocking".

Enzyme-linked Immunoabsorbent Assay

Gene Info — ACVR1B

Entrez GenelD	<u>91</u>
Protein Accession#	<u>P36896</u>
Gene Name	ACVR1B
Gene Alias	ACTRIB, ACVRLK4, ALK4, SKR2
Gene Description	activin A receptor, type IB
Omim ID	<u>601300</u>
Gene Ontology	Hyperlink

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Product Information

Gene Summary	Activins are dimeric growth and differentiation factors which belong to the transforming growth fac tor-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 ligan d-binding extracellular domain with a cysteine-rich region, a transmembrane domain, and a cytopl asmic domain with predicted serine/threonine specificity. Type I receptors are essential for signali ng, and type II receptors are required for binding ligands and for expression of type I receptors. Ty pe I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of typ e I receptors by type II receptors. This gene encodes activin A type IB receptor, composed of 11 e xons. Alternative splicing and alternative polyadenylation result in 3 fully described transcript varia nts. The mRNA expression of variants 1, 2, and 3 is confirmed, and a potential fourth variant conta ins an alternative exon 8 and lacks exons 9 through 11, but its mRNA expression has not been co nfirmed. [provided by RefSeq
Other Designations	activin A receptor, type II-like kinase 4 activin A type IB receptor activin receptor-like kinase 4 seri ne(threonine) protein kinase receptor R2

Publication Reference

• <u>Genomic structure and cloned cDNAs predict that four variants in the kinase domain of serine/threonine kinase receptors arise by alternative splicing and poly(A) addition.</u>

Xu J, Matsuzaki K, McKeehan K, Wang F, Kan M, McKeehan WL.

PNAS 1994 Aug; 91(17):7957.

• Type I receptors specify growth-inhibitory and transcriptional responses to transforming growth factor beta and activin.

Carcamo J, Weis FM, Ventura F, Wieser R, Wrana JL, Attisano L, Massague J. Molecular and Cellular Biology 1994 Jun; 14(6):3810.

 <u>Activin receptor-like kinases: a novel subclass of cell-surface receptors with predicted serine/threonine kinase</u> <u>activity.</u>

ten Dijke P, Ichijo H, Franzen P, Schulz P, Saras J, Toyoshima H, Heldin CH, Miyazono K. Oncogene 1993 Aug; 8(10).

Pathway

- Adherens junction
- <u>Chronic myeloid leukemia</u>
- Colorectal cancer

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Product Information

- Cytokine-cytokine receptor interaction
- Endocytosis
- MAPK signaling pathway
- Pancreatic cancer
- Pathways in cancer
- TGF-beta signaling pathway

Disease

- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- <u>Neoplasm Recurrence</u>
- <u>Neoplasms</u>
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Schizophrenia
- Thrombophilia
- <u>Tobacco Use Disorder</u>