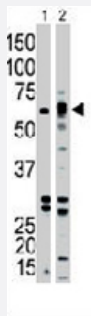


# ACVR1B polyclonal antibody

Catalog # PAB3467

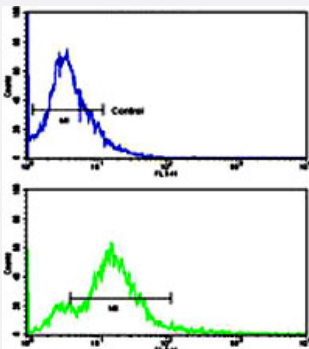
Size 400 uL

## Applications



### Western Blot

The ACVR1B polyclonal antibody (Cat # PAB3467) is used in Western blot to detect ACVR1B in Jurkat (1) and mouse kidney (2) tissue lysates.



### Flow Cytometry

Flow cytometric analysis of 293 cells using ACVR1B polyclonal antibody (Cat # PAB3467)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of ACVR1B.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to internal region of human ACVR1B.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification

<b>Recommend Usage</b>	Flow Cytometry (1:10-50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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Flow cytometric analysis of 293 cells using ACVR1B polyclonal antibody (Cat # PAB3467)(bottom histogram) compared to a negative control cell (top histogram).

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## Gene Info — ACVR1B

<b>Entrez GeneID</b>	<a href="#">91</a>
<b>Protein Accession#</b>	<a href="#">P36896</a>
<b>Gene Name</b>	ACVR1B
<b>Gene Alias</b>	ACTRIB, ACVRLK4, ALK4, SKR2
<b>Gene Description</b>	activin A receptor, type IB
<b>Omim ID</b>	<a href="#">601300</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

## Gene Summary

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. This gene encodes activin A type IB receptor, 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. [provided by RefSeq]

## Other Designations

activin A receptor, type II-like kinase 4|activin A type IB receptor|activin receptor-like kinase 4|serine(threonine) protein kinase receptor R2

## Publication Reference

- [Activin signaling through type IB activin receptor stimulates aromatase activity in the ovarian granulosa cell-like human granulosa \(KGN\) cells.](#)

Mukasa C, Nomura M, Tanaka T, Tanaka K, Nishi Y, Okabe T, Goto K, Yanase T, Nawata H.

Endocrinology 2003 Apr; 144(4):1603.

- [Identification of a functional binding site for activin on the type I receptor ALK4.](#)

Harrison CA, Gray PC, Koerber SC, Fischer W, Vale W.

The Journal of Biological Chemistry 2003 Jun; 278(23):21129.

- [Overexpression of wild-type activin receptor alk4-1 restores activin antiproliferative effects in human pituitary tumor cells.](#)

Danila DC, Zhang X, Zhou Y, Haidar JN, Klibanski A.

The Journal of Clinical Endocrinology and Metabolism 2002 Oct; 87(10):4741.

## Pathway

- [Adherens junction](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [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](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)