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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Activin receptor type-1B ACVR1B Antibody

Catalog Number: A02882

About ACVR1B

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 and two type II receptors. ACVR1B, also known as activin receptor-like kinase 4 (ALK4), is a type I receptor for activin and plays major roles in cell differentiation, growth arrest and apoptosis. Like another type I activin receptor ACVR1C, ACVR1B can mediate signaling by ligands such as Nodal, Xnr1, GDF-1/3, activin B and activin AB. In Xenopus embryos, expression of a dominant-negative form of ACVR1B blocked all mesoderm-inducing ligands, while expression of a dominant negative ACVR1C only blocked Nodal and Xnr1 signaling, suggesting that the ACVR1B and ACVR1C possess distinct functions.

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Overview

Product Name	Anti-Activin receptor type-1B ACVR1B Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Activin receptor type-1B ACVR1B Antibody (Catalog # A02882). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	ACVR1B Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	ACVR1B antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P36896

Technical Details

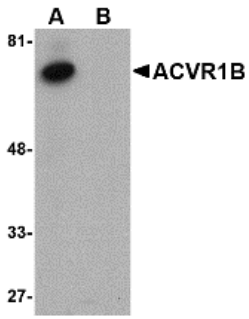
Immunogen	ACVR1B antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of the human ACVR1B. The immunogen is located within amino acids 140 - 190 of ACVR1B.

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Predicted Reactive Species	Rat
Cross Reactivity	At least three isoforms of ACVR1B are known to exist. This antibody is predicted to have no cross-reactivity to ACVR1 or ACVR1C.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ACVR1B Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	ACVR1B antibody can be used for detection of ACVR1B by Western blot at 1 ug/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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Anti-Activin receptor type-1B ACVR1B Antibody (A02882) Images



Western blot analysis of ACVR1B in human kidney tissue lysate with ACVR1B antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Anti-Activin receptor type-1B ACVR1B Antibody

For Research Use Only. Not for use in diagnostic procedures.