

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.

Overview

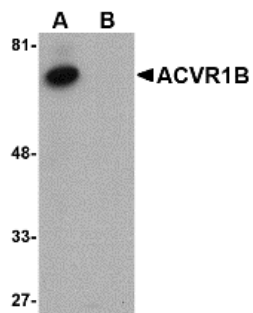
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| Product Name | Anti-Activin receptor type-1B ACVR1B Antibody |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-Activin receptor type-1B ACVR1B Antibody (Catalog # A02882). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse. |
| Application | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | ACVR1B Antibody is supplied in PBS containing 0.02% sodium azide. |
| Storage Instructions | ACVR1B antibody can be stored at 4°C for three months and -20°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

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| 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. |
| 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 |

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|---------------------|--|
| 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. |

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.

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