

Anti-ACVR1C Antibody

Catalog Number: A00798-1

About ACVR1

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. ACVR1C, also known as ALK7, is a type I activin receptor and plays a role in cell differentiation, growth arrest and apoptosis. ACVR1C can mediate signaling by ligands such as Nodal, GDF-1/3, activin B and activin AB, all of which can also signal through the ubiquitous activin type I receptor ACVR1B (also known as ALK4). ACVR1C is a novel marker specifically expressed during the late phase of adipocyte differentiation. ACVR1C is dispensable for mouse embryogenesis, which suggests alternative functions for this receptor in postnatal development and tissue homeostasis. ACVR1C plays an important role in regulating the functional plasticity of pancreatic islets, negatively affecting beta-cell function by mediating the effects of activin B on Ca²⁺ signaling.

Overview

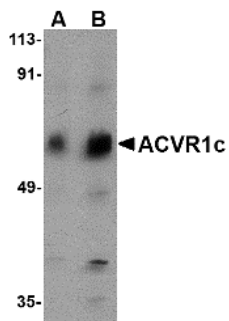
| | |
|----------------------|---|
| Product Name | Anti-ACVR1C Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-ACVR1C Antibody (Catalog # A00798-1). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | ACVR1C Antibody is supplied in PBS containing 0.02% sodium azide. |
| Storage Instructions | ACVR1C 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 | Q04771 |

Technical Details

| | |
|----------------------------|--|
| Immunogen | ACVR1C antibody was raised against a 15 amino acid synthetic peptide near the amino terminus of the human ACVR1C. The immunogen is located within amino acids 130 - 180 of ACVR1C. |
| Predicted Reactive Species | Bovine, Rat |
| Cross Reactivity | This antibody is predicted to have no cross-reactivity to ACVR1 or ACVR1B. |
| Isotype | IgG |
| Form | Liquid |

| | |
|---------------------|--|
| Concentration | 1 mg/mL |
| Purification | ACVR1C Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | ACVR1C antibody can be used for detection of ACVR1C by Western blot at 1 and 2 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-ACVR1C Antibody (A00798-1) Images



Western blot analysis of ACVR1C in human placenta tissue lysate with ACVR1C antibody at (A) 1 and (B) 2 ug/mL.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-ACVR1C Antibody

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