

Anti-Activin Receptor Type IA (ACVR1) Antibody (Center R147)

Catalog Number: A00798-2

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 (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 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. ACVR1 (activin A type I receptor) signals a particular transcriptional response in concert with activin type II receptors.

Overview

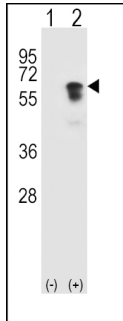
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| Product Name | Anti-Activin Receptor Type IA (ACVR1) Antibody (Center R147) |
| Reactive Species | Human |
| Description | Boster Bio Anti-Activin Receptor Type IA (ACVR1) Antibody (Center R147) (Catalog # A00798-2). Tested in WB, IHC-P application(s). This antibody reacts with Human. |
| Application | IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | Q04771 |

Technical Details

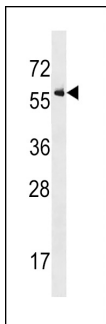
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| Immunogen | This Activin Receptor Type IA (ACVR1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-162 amino acids from the Central region of human Activin Receptor Type IA (ACVR1). |
| Predicted Reactive Species | Bovine, Mouse, Rat |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | Rabbit IgG |

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| Form | Liquid |
| Purification | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Suggested Dilutions | WB: 1:1000 IHC-P: 1:50-1:100 |

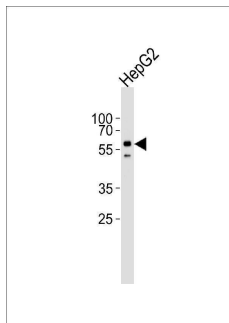
Anti-Activin Receptor Type IA (ACVR1) Antibody (Center R147) (A00798-2) Images



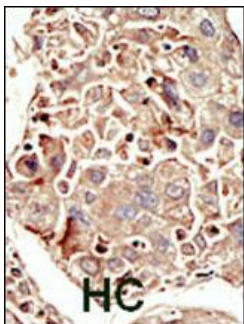
Western blot analysis of ACVR1 (arrow) using rabbit polyclonal ACVR1 Antibody (R147). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ACVR1 gene.



ACVR1 Antibody (R147) western blot analysis in U937 cell line lysates (35ug/lane). This demonstrates the ACVR1 antibody detected the ACVR1 protein (arrow).



Western blot analysis of lysate from HepG2 cell line, using ACVR1 Antibody (R147). A00798-2 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

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