

Datasheet for ABIN7320385
ACVR2B Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	ACVR2B
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVR2B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Activin Receptor 2B/ACVR2B Protein (His Tag)(Active)
Sequence:	Met 1-Thr 134
Characteristics:	A DNA sequence encoding the extracellular domain of mouse ACTRIIB (NP_031423.1) (Met 1-Thr 134) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 94 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized human ACVR2B at 10 µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His, The EC50 of biotinylated mouse INHBA-His is 0.161 µg/mL.2. Measured by its binding ability in a functional ELISA. Immobilized mouse INHBA-his at 10 µg/mL (100 µl/well) can bind human Follistatin Protein, The EC50 of human Follistatin Protein is 0.39 µg/mL.3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.2-0.8 µg/mL in the

Product Details

presence of 10 ng/mL recombinant Activin A.

Target Details

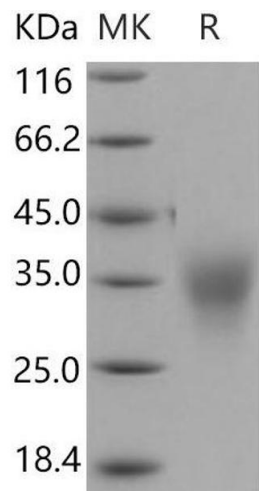
Target:	ACVR2B
Alternative Name:	Activin Receptor 2B/ACVR2B (ACVR2B Products)
Background:	<p>Background: ACVR2A and ACVR2B are two activin type II receptors. ACVR2B is integral to the activin and myostatin signaling pathway. Ligands such as activin and myostatin bind to ACVR2A and ACVR2B. Myostatin, a negative regulator of skeletal muscle growth, is regarded as a potential therapeutic target and binds to ACVR2B effectively, and to a lesser extent, to ACVR2A. The structure of human ACVR2B kinase domain in complex with adenine establishes the conserved bilobal architecture consistent with all other catalytic kinase domains. Haplotype structure at the ACVR2B and follistatin loci may contribute to interindividual variation in skeletal muscle mass and strength. Defects in ACVR2B are a cause of left-right axis malformations.</p> <p>Synonym: 4930516B21Rik,ActRIIB</p>
Molecular Weight:	14.8 kDa
NCBI Accession:	NP_031423
Pathways:	Hormone Transport , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.