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Datasheet for ABIN7519657

ACVR2B Protein (Fc Tag,His tag)

Overview

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

Product Details

Purpose:	Active Recombinant Human Activin RIIB/ACVR2B Protein
Sequence:	SGRGEAETRE CIYYNANWEL ERTNQSGLER CEGEQDKRLH CYASWRNSSG TIELVKKGCW LDDFNCYDRQ ECVATEENPQ VYFCCCEGNF CNERFTHLPE AGGPEVTYEP PPTAPT
Specificity:	Ser19-Thr134
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA.Immobilized Human ACVR2B at 1 µg/mL (100 µL/well) can bind Human BMPRIA with a linear range of 0.5-62.5 ng/mL. 2.Measured by its binding ability in a functional ELISA.Immobilized Human CD105 at 1 µg/mL (100 µL/well) can bind Human ACVR2B with a linear range of 0.49-43.03 ng/mL.

Target Details

Target:	ACVR2B
Alternative Name:	Activin RIIIB/ACVR2B (ACVR2B Products)
Background:	<p>Description: 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. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.</p> <p>Name: ACVR2B,ACTRIIB,ActR-IIB,HTX4</p>
Gene ID:	93
UniProt:	Q13705
Pathways:	Hormone Transport , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1</p>

week.