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Datasheet for ABIN7318128

Activin A Receptor Type IB/ALK-4 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Activin A Receptor Type IB/ALK-4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ALK4/ACVR1B Protein (His Tag)(Active)
Sequence:	Ser24-Glu126
Characteristics:	Recombinant Human Activin Receptor Type-1B is produced by our Mammalian expression system and the target gene encoding Ser24-Glu126 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human TDGF1-Fc(Cat: PKSH033100) at 10µg/ml(100 µl/well) can bind Human ACVR1B-His. The ED50 of Human ACVR1B-His is 4.7 ug/ml.

Target Details

Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)

Target Details

Alternative Name:	ALK4/ACVR1B (ACVR1B Products)
Background:	Background: Activin Receptor Type-1B (ACVR1B) is a single-pass type I membrane protein that belongs to the protein kinase superfamily. ACVR1B contains one GS domain and one protein kinase domain and is expressed in many tissues, most strongly in kidney, pancreas, brain, lung, and liver. ACVR1B acts as a transducer of activin or activin like ligands signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B, ACVR2A or ACVR2B activating ACVR1B through phosphorylation of its regulatory GS domain. They go on to recruit the R-SMADs, SMAD2 and SMAD3. ACVR1B also transducers signals of nodal, GDF-1, and Vg1. Mutations in ACVR1B are associated with pituitary tumors. Synonym: Activin Receptor Type-1B, Activin Receptor Type IB, ACTR-IB, Activin Receptor-Like Kinase 4, ALK-4, Serine/Threonine-Protein Kinase Receptor R2, SKR2, ACVR1B, ACVRLK4, ALK4
Molecular Weight:	12.5 kDa
UniProt:	P36896

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.