

Datasheet for ABIN7321211

Activin A Receptor Type IB/ALK-4 Protein (Fc Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Activin A Receptor Type IB/ALK-4 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Rat ALK4/ACVR1B Protein (Fc Tag)(Active)
Sequence:	Met1-Glu126
Characteristics:	A DNA sequence encoding the rat ACVR1B (Met1-Glu126) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its ability to bind with rat TDGF1-His in a functional ELISA.

Target Details

Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Alternative Name:	ALK4/ACVR1B (ACVR1B Products)

Target Details

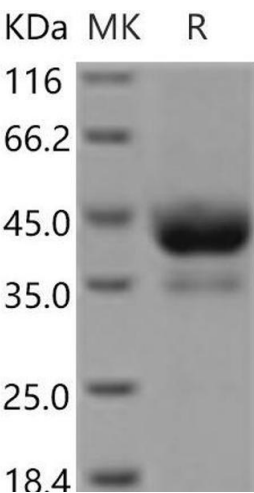
Background:	<p>Background: ALK-4 (Activin Receptor-Like Kinase 4) or ACVR1B (Activin A Receptor, type 1B), belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family, and TGFB receptor subfamily. ALK-4/ACVR1B acts as a transducer of activin or activin like ligands signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B. The known type II activin receptors include ActRII and ActRIIB, while the main type I activin receptor in mammalian cells is ALK-4 (ActRIB). In the presence of activin, type II and type I receptors form complexes whereby the type II receptors activate ALK-4 through phosphorylation. The activated ALK-4, in turn, transduces signals downstream by phosphorylation of its effectors, such as Smads, to regulate gene expression and affect cellular phenotype. ALK-4/ACVR1B is an important regulator of vertebrate development, with roles in mesoderm induction, primitive streak formation, gastrulation, dorsoanterior patterning, and left-right axis determination.</p> <p>Synonym: ACVR1B,Acvrlk4,Alk4</p>
Molecular Weight:	38.4 kDa
NCBI Accession:	NP_954700

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

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. 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.