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Datasheet for ABIN7194135

## ACVR1 Protein (His tag,Fc Tag)

### 1 Image

#### Overview

Quantity:	200 µg
Target:	ACVR1 (ACRV1)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVR1 protein is labelled with His tag,Fc Tag.

#### Product Details

Purpose:	Recombinant Mouse ALK-2/ACVR1 Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Glu 123
Characteristics:	A DNA sequence encoding the mouse ACVR1 (NP_031420.2) precursor (Met 1-Glu 123) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measure by its ability to bind with human BMP2 in a functional ELISA.

#### Target Details

Target:	ACVR1 (ACRV1)
Alternative Name:	ALK-2/ACVR1 ( <a href="#">ACRV1 Products</a> )

## Target Details

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**Background:** Background: ALK-2, also termed as ACVR1, was initially identified as an activin type I receptor because of its ability to bind activin in concert with ActRII or ActRIIB. ALK-2 is also identified as a BMP type I receptor. It has been demonstrated that ALK-2 forms complex with either the BMP-2/7-bound BMPRII or ACVR2A /ACVR2B. ALK-1 and ALK-2 presenting in the yeast *Saccharomyces cerevisiae* are two haspin homologues. Both ALK-1 and ALK-2 exhibit a weak auto-kinase activity in vitro, and are phosphoproteins in vivo. ALK-1 and ALK-2 levels peak in mitosis and late-S/G2. Control of protein stability plays a major role in ALK-2 regulation. The half-life of ALK-2 is particularly short in G1. Overexpression of ALK-2, but not of ALK-1, causes a mitotic arrest, which is correlated to the kinase activity of the protein. This suggests a role for ALK-2 in the control of mitosis. Endoglin is phosphorylated on cytosolic domain threonine residues by the TGF-beta type I receptors ALK-2 and ALK-5 in prostate cancer cells. Endoglin did not inhibit cell migration in the presence of constitutively active ALK-2. Defects in ALK-2 are a cause of fibrodysplasia ossificans progressiva (FOP).  
Synonym: ActR-I,ActRIA,Acvr,Acvrlk2,Alk-2,ALK2,Alk8,D330013D15Rik,SKR1,Tsk7L

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**Molecular Weight:** 40 kDa

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**NCBI Accession:** [NP\\_031420](#)

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## Application Details

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Lyophilized

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**Reconstitution:** Please refer to the printed manual for detailed information.

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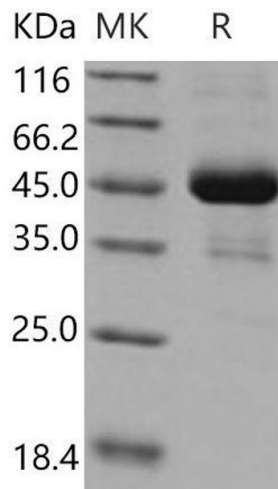
**Buffer:** Lyophilized from sterile PBS, pH 7.4

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**Storage:** 4 °C,-20 °C,-80 °C

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**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.



**Western Blotting**

**Image 1.**