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Datasheet for ABIN7318127 **ACVR1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	ACVR1 (ACRV1)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ALK-2/ACVR1 Protein (Human Cells, His Tag)
Sequence:	Met21-Val124
Characteristics:	Recombinant Human Activin Receptor Type-1A is produced by our Mammalian expression system and the target gene encoding Met21-Val124 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.

Target Details

Target:	ACVR1 (ACRV1)
Alternative Name:	ALK-2/ACVR1 (ACRV1 Products)
Background:	Background: Activin receptor type-1, also known as Activin receptor type I, Activin receptor-like kinase 2, Serine/threonine-protein kinase receptor R1, TGF-B superfamily receptor type I,

Target Details

ACVRLK2 and ACVR1, is a single-pass type I membrane protein. ACVR1 is expressed in normal parenchymal cells, endothelial cells, fibroblasts and tumor-derived epithelial cells. ACVR1 belongs to the protein kinase superfamily. 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. ACVR1 signals a particular transcriptional response in concert with activin type II receptors.

Synonym: Activin Receptor Type-1, Activin Receptor Type I, ACTR-I, Activin Receptor-Like Kinase 2, ALK-2, Serine/Threonine-Protein Kinase Receptor R1, SKR1, TGF-B Superfamily Receptor Type I, TSR-I, ACVR1, ACVRLK2,ACVR1A,ACVRLK2,ALK2,FOP,SKR1

Molecular Weight: 12.6 kDa

UniProt: [Q04771](#)

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.