

Recombinant Human ACVR2B, GST-tagged

Cat. No. ACVR2B-6995H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ACVR2B (182-488) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	182-488 aa
Description	ACVR2B or activin A receptor, type IIB is belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins that 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. ACVR2B is help to regulate muscle growth. ACVR2B is a transmembrane protein that composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~61 kDa
Purity	>85%
Applications	Western Blot

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Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	ACVR2B activin A receptor, type IIB [Homo sapiens]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin A receptor, type IIB; activin receptor type-2B; ActR IIB; HTX4; ACTRIIB; ActR-IIB;
Gene ID	93
mRNA Refseq	NM_001106
Protein Refseq	NP_001097
MIM	602730
UniProt ID	Q13705
Chromosome Location	3p22
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Developmental Biology, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP,

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organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;

Function

ATP binding; activin binding; activin receptor activity, type II; contributes_to activin receptor activity, type II; growth factor binding; inhibin beta-A binding; inhibin beta-B binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;

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