Active Recombinant Human ACVR2B Protein, GST-tagged

Cat. No. ACVR2B-257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACVR2B (NP_001097.2, 161 a.a. - 512 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
ProteinLength	161-512 a.a.
Description	Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. 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. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor. [provided by RefSeq, Jul 2008]
Form	Liquid

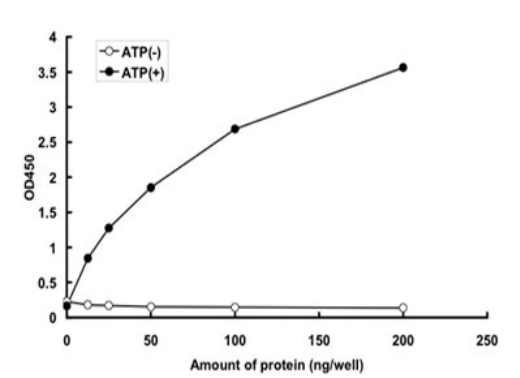
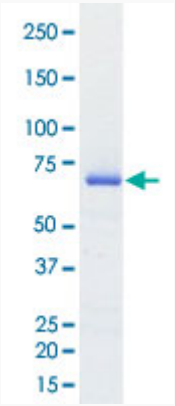
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Bio-activity	The activity was determined by ELISA. The enzyme was incubated with biotinylated substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into streptavidin- coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG. Substrate: ALK4 inactive mutant. ATP: 100 uM.
Molecular Mass	67 kDa
Purity	94 % by SDS-PAGE/CBB staining
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

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

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MIM	602730
UniProt ID	Q13705
Result of activity analysis	
	 Loading 1 ug protein in SDS-PAGE

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