

Recombinant Human ACVR2B Protein, GST-tagged

Cat. No. ACVR2B-258H Lot. No. (See product label)

SPECIFICATION

Product Overview Human ACVR2B full-length ORF (AAH96245.1, 1 a.a. - 303 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

ProteinLength 1-303aa

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]

Molecular Mass 60.6 kDa

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AA Sequence

MNDFVAVKIFPLQDKQSWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITA
 FHDKGSGLTDYLKGNITWNECHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDF
 KSKNVLLKSDLTAVLADFGLAVRFEPGKPPGDTHGQVGTRRYMAPEVLEGAINFQR
 DAFLRIDMYAMGLVLWELVSRCKAADGPVDEYMLPFEEEEIGQHPSLEELQEVVVHK
 KMRPTIKDHWLKHPLAQLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS
 DCLVSLVTSVTNVDLPPKESSI

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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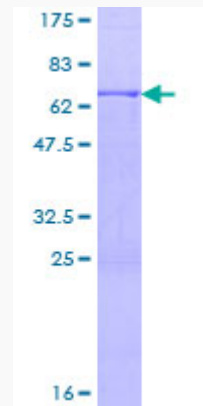
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Protein Refseq NP_001097

MIM 602730

UniProt ID Q13705



12.5% SDS-PAGE Stained with Coomassie Blue.

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