

Recombinant Human Activin A Receptor, Type IB, GST-tagged, Active

Cat. No. ACVR1B-240H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ALK4 (150-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using a N-terminal GST tag. MW = 64 KDa.
Species	Human
Source	Sf9 Cells
Protein Length	150-end a.a.
Description	ALK4 is a member of the subfamily of receptor ser/thr kinases that mediates signaling by the Activins. ALK4 is expressed in many human tissues, including kidney, pancreas, brain, lung, and liver. Truncated ALK4, predominantly expressed in human pituitary adenomas, function as dominant negative receptors to interfere with wild-type receptor function and blocks the antiproliferative effect of activin possibly contributing to development of human pituitary tumors. ALK4 is able to mediate Nodal signaling in the presence of Cripto during vertebrate development.
Sequence	150-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	ACVR1B activin A receptor, type IB [Homo sapiens]
Synonyms	activin A receptor, type IB; ALK4; SKR2; ACTRIB; ACVRLK4; ACVR1B; activin receptor-like kinase 4; activin A receptor, type II-like kinase 4; serine(threonine) protein kinase receptor R2; ACTR-IB; ALK-4; ActRIB; EC 2.7.11.30; Activin receptor-like kinase 4; Serine/threonine-protein kinase receptor R2; activin A type IB receptor
Gene ID	91
mRNA Refseq	NM_004302
Protein Refseq	NP_004293
MIM	601300
UniProt ID	P36896
Chromosome Location	12q13
Pathway	Adherens junction; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; activin binding; activin receptor activity, type I; growth factor binding; magnesium ion binding; manganese ion binding; nucleotide binding; protein serine/threonine kinase activity; receptor activity; transferase activity; ubiquitin protein ligase binding

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on 1rw8.



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