

Recombinant Human Activin A Receptor Type II-like 1, GST-tagged, Active

Cat. No. ACVRL1-238H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ALK1 (144-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW=64 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	144-end a.a.
Description	<p>ALK1 is a serine/threonine-protein kinase receptor R3 precursor that mediates signal by TGFβ superfamily. ALK1 functions as a TGFβ type I receptor in endothelial cells and is responsible for human hereditary hemorrhagic telangiectasia (HHT) type II. Distinct Smad proteins (i.e., Smad2/Smad3 and Smad1/Smad5) show interaction with ALK1 and mediate TGFβ signaling. Northern blot and RT-PCR analysis show that ALK1 specifically induces expression of Smad6, Smad7, Id1, Id2, endoglin, STAT1, and interleukin 1 receptor in endothelial cells. ALK1 expression in inflammatory myofibroblastic tumor of the urinary bladder have also has been reported.</p>
Sequence	144-end.
Applications	Kinase Assay, Western Blot.
Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	ACVRL1 activin A receptor type II-like 1 [Homo sapiens]
Synonyms	ACVRL1; activin A receptor type II-like 1; HHT; ALK1; HHT2; ORW2; SKR3; ALK-1; TSR-I; ACVRLK1; activin A receptor type II-like 1; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 1; serine/threonine-protein kinase receptor R3; EC 2.7.11.30
Gene ID	94
mRNA Refseq	NM_000020
Protein Refseq	NP_000011
MIM	601284
UniProt ID	P37023
Chromosome Location	12q11-q14
Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; activin receptor activity, type I; magnesium ion binding; nucleotide binding; receptor activity; transferase activity; transforming growth factor beta binding

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