

ALK1 recombinant protein

ALK1, Active

CATALOG # AAA73214	HOST Sf9 insect cells	APPLICATIONS Western Blot
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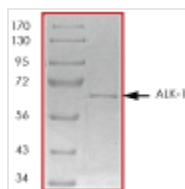
PRODUCT SYNONYMS

ALK1; Active; ACVRL1; ACVRLK1; HHT; HHT2; ORW2; SKR3; TSR-I; ALK1 recombinant protein

PRODUCT SPECIFICATIONS

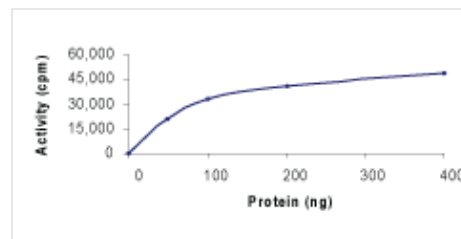
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Applicable Applications for ALK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for ALK1 recombinant protein	Recombinant human ALK1 (144-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_000020. ALK1 is a serine/threonine-protein kinase receptor R3 precursor that mediates signal by TGFbeta superfamily (1). ALK1 functions as a TGFbeta 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 TGFbeta 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 (2).
Product Categories/Family for ALK1 recombinant protein	Protein Kinases; AKT/PKB Pathway; Angiogenesis; Cancer; Cardiovascular Disease; JAK/STAT Pathway; Neurobiology; Ser/Thr Kinases

References

- 1.Ota, T. et al: Targets of transcriptional regulation by two distinct type I receptors for transforming growth factor-beta in human umbilical vein endothelial cells. J. Cell Physiol. 2002;193(3):299-318.
- 2.Tsuzuki, T. et al: ALK1 expression in inflammatory myofibroblastic tumor of the urinary bladder. Am. J. Surg. Pathol. 2004; 28(12):1609-14.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_000020](#)

Molecular Weight

~64kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/alk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73214>