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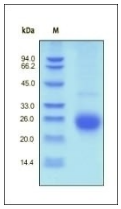
ALK 1 Recombinant Protein

Cat. No.: 96-022



ALK 1 Recombinant Protein

Specifications

SPECIES:	Human
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Asp 22 - Gln 118
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	12.3 kDa

Properties

PURITY:	>97% as determined by SDS-PAGE.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4
STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20˚C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20˚C or -70˚C. Avoid repeated freeze-thaw cycles.

Additional Info

OFFICIAL SYMBOL:	ACVRL1
ALTERNATE NAMES:	ACVRL1, ACVRLK1, ALK-1, HHT, HHT2, ORW2, SKR3, TSR-I
ACCESSION NO.:	NP_000011.2
GENE ID:	94

Background and References

BACKGROUND:	Serine/threonine-protein kinase receptor R3 is an enzyme that in humans is encoded by the ALK1 gene. ALK1 is a receptor in the TGF beta signaling pathway. ALK1 protein is a receptor in the TGF beta signaling pathway. It plays an important role in vascular development, remodeling, and pathologic angiogenesis, play a role in stabilizing angiogenic vessels and contribute to resistance to anti-VEGF therapies, ALK1 blockade may represent an effective therapeutic opportunity complementary to the current antiangiogenic modalities in the clinic. Recently, researcher found that, ALK1-Fc inhibited BMP9-mediated Id-1 expression in human umbilical vein endothelial cells and inhibited cord formation by these cells on a Matrigel substrate, in a chick chorioallantoic membrane assay, ALK1-Fc reduced vascular endothelial growth factor-, fibroblast growth factor-, and BMP10-mediated vessel formation, and ALK1-Fc treatment reduced tumor burden in mice receiving orthotopic grafts of MCF7 mammary adenocarcinoma cells.
REFERENCES:	1) Ten Dijke P, Ichijo H, et al.,1993, Oncogene 8 (10): 2879–87.
	2) Johnson DW, Berg JN, et al., 1996, Nat Genet 13 (2): 189–95.
	3) Lawlor MW, Read BP, et al., 2011, Am J Pathol. 178(2):784-93.
	4) Mitchell D,et al., 2010, Mol Cancer Ther.. 9(2):379-88.

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