

KIF5B-ALK recombinant protein

KIF5B-ALK (Kex24Aex20), Active

CATALOG # AAA73242	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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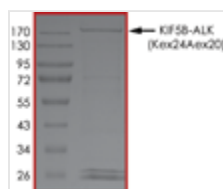
PRODUCT SYNONYMS

KIF5B-ALK; KIF5B-ALK (Kex24Aex20); Active; KIF5B: KINH; UKHC; KNS ALK: ALK (Ki-1); CD246; KIF5B-ALK recombinant protein

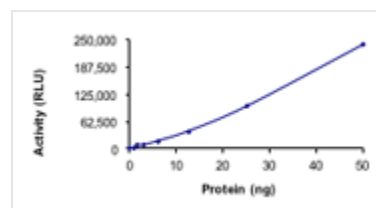
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for KIF5B-ALK recombinant protein	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 Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for KIF5B-ALK recombinant protein	Recombinant human fusion KIF5B (1-921a.a., exons1-24) -ALK (1058a.a.-end, exons20-29) protein was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number of KIF5B is NM_004521 and ALK is NM_004304. Anaplastic large cell lymphomas are associated with chromosomal aberrations involving the anaplastic lymphoma kinase (ALK) gene, resulting in the expression of novel chimeric ALK proteins with transforming properties. Many chromosomal rearrangements leading to enhanced ALK activity have been described and are implicated in a number of cancer types (1). A fusion protein of kinesin family member 5B (KIF5B) exon 15 to ALK exon 20 has been reported in a primary lung adenocarcinoma (2). Overexpression of KIF5B-ALK increased cell proliferation, migration and invasion via activating the STAT3 and PKB (3).
Product Categories/Family for KIF5B-ALK recombinant protein	Mutant Kinases; Cancer

References

1. Palmer R H, et al: Anaplastic lymphoma kinase: signalling in development and disease. Biochem J. 2009 May 27;420(3):345-61.
2. Takeuchi K, et al: KIF5B-ALK, a novel fusion oncokinase identified by an immunohistochemistry-based diagnostic system for ALK-positive lung cancer. 2009 May 1;15(9):3143-9.
3. Wong DW, et al: A novel KIF5B-ALK variant in nonsmall cell lung cancer. Cancer. 2011 Jun 15;117(12):2709-18.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_004521](#)

Molecular Weight

195kDa

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/kif5b-alk-recombinant-protein-sf9-insect-cells-kinase-assay/73242>