

Active Recombinant Human ALK Protein, GST-His tagged

Cat. No. ALK-471H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ALK (NP_004295.2, 1066 a.a. - 1437 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.
Species	Human
Source	Insect Cells
ProteinLength	1066-1437 a.a.
Description	This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This protein comprises an extracellular domain, an hydrophobic stretch corresponding to a single pass transmembrane region, and an intracellular kinase domain. It plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. This gene has been found to be rearranged, mutated, or amplified in a series of tumours including anaplastic large cell lymphomas, neuroblastoma, and non-small cell lung cancer. The chromosomal rearrangements are the most common genetic alterations in this gene, which result in creation of multiple fusion genes in tumourigenesis, including ALK (chromosome 2)/EML4 (chromosome 2), ALK/RANBP2 (chromosome 2), ALK/ATIC (chromosome 2), ALK/TFG (chromosome 3), ALK/NPM1 (chromosome 5), ALK/SQSTM1 (chromosome 5), ALK/KIF5B (chromosome 10), ALK/CLTC (chromosome 17), ALK/TPM4 (chromosome 19), and ALK/MSN (chromosome X).[provided by RefSeq, Jan 2011]

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Form	Liquid
Bio-activity	93 pmol/μg x min
Molecular Mass	75.5 kDa
AA Sequence	LQAMQMELQSPEYKLSKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRGLG HGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALIISKFNHQNIV RCIGVSLQSLPRFILLELMAGGDLKSFLRETRPRPSQPSSLAMLDLLHVARDIACGCQ YLEENHFIHRDIAARNCLLTCPGPGRVAKIGDFGMARDIYRASYYRKGGCAMLPVKW MPPEAFMEGIFTSKTDTWSFGVLLWEIFSLGYMPYPSKSNQEVLEFVTSGGRMDPP KNCPGPVYRIMTQCWQHQPEDRPNFAILERIEYCTQDPDVINTALPIEYGPLVEEEE KVPVRPKDPEGVPPLLVSQQA KREEERS
Applications	Functional Study; SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)

GENE INFORMATION

Gene Name	ALK anaplastic lymphoma receptor tyrosine kinase [Homo sapiens]
Official Symbol	ALK
Synonyms	ALK; anaplastic lymphoma receptor tyrosine kinase; anaplastic lymphoma kinase (Ki 1); ALK tyrosine kinase receptor; CD246; CD246 antigen; mutant anaplastic lymphoma kinase; NBLST3;

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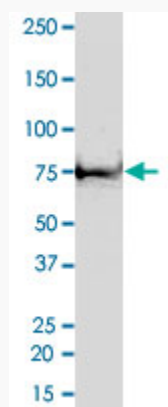
Gene ID 238

mRNA Refseq NM_004304

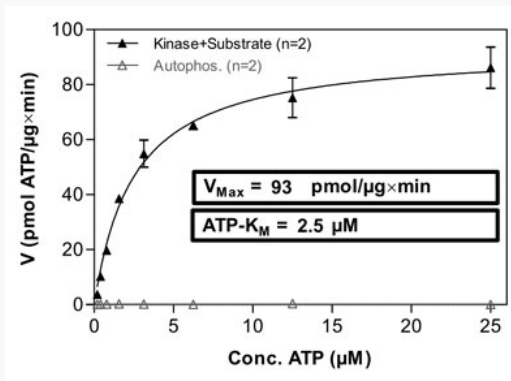
Protein Refseq NP_004295

MIM 105590

UniProt ID Q9UM73



2 µg/lane SDS-PAGE Stained with Coomassie Blue



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Result of activity analysis

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