

## Active Recombinant Human ALK Protein, GST-His tagged

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

### SPECIFICATION

<b>Product Overview</b>	Human ALK (NP_004295.2, 1066 a.a. - 1437 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1066-1437 a.a.
<b>Description</b>	<p>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]</p>

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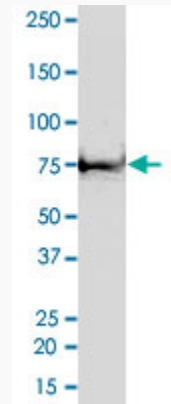
<b>Form</b>	Liquid
<b>Bio-activity</b>	93 pmol/μg x min
<b>Molecular Mass</b>	75.5 kDa
<b>AA Sequence</b>	LQAMQMELQSPEYKLSKLRSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRGLG HGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALIISKFNHQNIV RCIGVSLQSLPRFILLELMAGGDLKSFLRETRPRPSQPSSLAMLDLLHVARDIACGCQ YLEENHFIHRDIAARNCLLTCPGPGRVAKIGDFGMARDIYRASYRKGCCAMLPVKW MPPEAFMEGIFTSKTDTSFVLLWEIFSLGYMPYPSKSNQEVLFTSGGRMDPP KNCPGPVYRIMTQCWQHQPEDRPNFAILLERIEYCTQDPDVINTALPIEYGPLVEEEE KVPVRPKDPEGVPPLLVSQQAKREEERS
<b>Applications</b>	Functional Study; SDS-PAGE
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">ALK anaplastic lymphoma receptor tyrosine kinase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ALK</a>
<b>Synonyms</b>	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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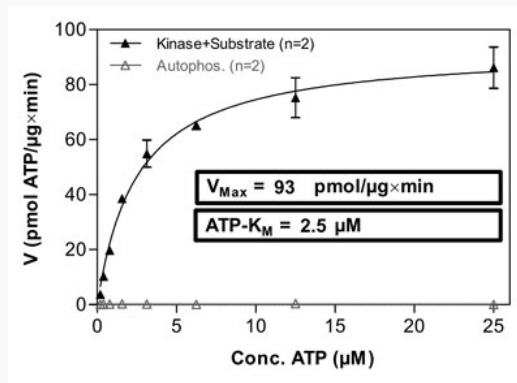
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Gene ID	238
mRNA Refseq	NM_004304
Protein Refseq	NP_004295
MIM	105590
UniProt ID	Q9UM73



2 µg/lane SDS-PAGE Stained with Coomassie Blue



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Result of activity analysis

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