

Recombinant Human ALK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALK-1272H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

ALK MS Standard C13 and N15-labeled recombinant protein (NP_004295) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

ProteinLength

1-1620aa

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).

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Molecular Mass 176.3 kDa

AA Sequence

MGAIGLLWLLPLLLSTAAVGSGMGTGQRAGSPAAGPPLQPREPLSYSRLQRKSLAV
 DFVPSLFRVYARDLLLPPSSSELKAGRPEARGLALDCAPLLRLLGPAPGVSWTAG
 SPAPAEARTLSRVLKGGSVRKLRRAKQLVLELGEEAILEGCVGPPGEAAVGLLQFNL
 SELFSSWWIRQGEGRRLRIRLMPEKKASEVGREGRLSAAIRASQPRLLFQIFGTGHSSL
 ESPTNMPSPSPDYFTWNLTWIMKDSFPFLSHRSRYGLECSFDFPCELEYSPLHDL
 RNQSWSWRRIPSEEASQMDLLDGPAGAERSKEMPRGSFLLLNTSADSKHTILSPWM
 RSSSEHCTLAVSVHRHLQPSGRYIAQLPHNEAAREILLMPTPGKHGWTVLQGRIGR
 PDNPFRAVEYISSGNRSLSAVDFFALKNCSEGTSPGSKMALQSSFTCWNGTVLQL
 GQACDFHQDCAQGEDESQMCRLPVGFYCNFEDGFCGWTQGTLSPHTPQWQVR
 TLKDARFQDHQDHALLSTTDVPASESATVTSATFPAPIKSSPCEL RMSWLIRGVLR
 GNVSLVLVENKTGKEQGRMVWHVAAAYEGLSLWQWMVLPLLDVSDRFLQMVAV
 WGQGSRAIVAFDNISISLDCYLTISGEDKILQNTAPKSRNLFERNPNKELKPGENSPR
 QTPIFDPTVHWLFTTCGASGPHGPTQAQCNNAYQNSNLSVEVGSEGPLKGIQIWKV
 PATDTYSISGYGAAGGKGGKNTMMRSHGVSVLGFNLEKDDMLYILVGQQGEDACP
 STNQLIQKVCIGENNVIEEEIRVNRSVHEWAGGGGGGGGATYVFKMKDGVVPVLIIA
 AGGGGGRAYGAKTDTFHPERLENNSSVLGLNGNSGAAGGGGGGWNNTSLLWAGKS
 LQEGATGGHSCPQAMKKWGWETRGGFGGGGGGCSSGGGGGGGYIGGNAASNND
 PEMDGEDGVSFISPLGILYTPALKVMEGHGEVNIKHLYNCSHCEVDECHMDPESHK
 VICFCDHGTVLAEDGVSCIVSPTPEPHLPLSLILSVVTSALVAALVLA FSGIMIVYRRKH
 QELQAMQMELQSPEYKLSKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRG
 LGHGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDLMEALIISKFNHQ
 NIVRCIGVSLQSLPRFILLELMAGGDLKSFLRETRPRPSQPSSLAMLDLLHVARDIAC
 GCQYLEENHFIHRDIAARNCLLTCGPGRVAKIGDFGMARDIYRASYYRKGGCAML P
 VKWMPPEAFMEGIFTSKTD TWSFGVLLWEIFSLGYMPYPSKSNQEVLEFVTSGGRM
 DPPKNCPGPVYRIMTQCWQHQPEDRPNF AILERIEYCTQDPDVINTALPIEYGPLVE
 EEEKVPVRPKDPEGVPPLLVSQQA KREEERSPAAPPPLPTTSSGKA AKKPTAAEVS
 VRVPRGPAVEGGHV NMAFSQSNPPSELHRVHGSRNKPTSLWNPTYG SWFTEKPT
 KKNMPIAKKEPHERGNLGLGSC TVPPNVATGR LPGASLLLEPSSLTANMKEVPLFR

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	LRHFPCGNVNYGYQQGLPLEAATAPGAGHYEDTILKSKNSMNQPGPTRTRPLEQ KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ALK anaplastic lymphoma receptor tyrosine kinase [Homo sapiens (human)]
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;
Gene ID	238
mRNA Refseq	NM_004304
Protein Refseq	NP_004295
MIM	105590

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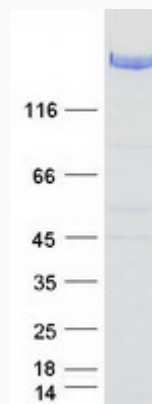
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UniProt ID

Q9UM73

SDS-PAGE

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