

# 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**

MGAIGLLWLLPLLLSTAAVGSMTGQRAGSPAAGPPLQPREPLSYSRLQRKSLAV  
 DFVPSLFRVYARDLLLPPSSSELKAGRPEARGLALDCAPLLRLLGPAPGVSWTAG  
 SPAPAEARTLSRVLKGGSVRKLRRAKQLVLELGEEAILEGCVGPPGEAAVGLLQFNL  
 SELFSWWIRQGEGRRLRIRLMPEKKASEVREGRLSAAIRASQPRLLFQIFGTGHSSL  
 ESPTNMPSPSPDYFTWNLTWIMKDSFPFLSHRSRYGLECSFDFPCELEYSPLHDL  
 RNQSWSWRRIPSEEASQMDLLDGPGAERSKEMPRGSFLLLNTSADSKHTILSPWM  
 RSSSEHCTLAVSVHRHLQPSGRYIAQLLPHNEAAREILLMPTPGKHGWTVLQGRIGR  
 PDNPFVVALEYISSGNRSLSAVDFFALKNCSEGTSPGSKMALQSSFTCWNGTVLQL  
 GQACDFHQDCAQGEDESQMCRKLPVGFYCNFEDGFCGWTQGTLSPHTPWQVVR  
 TLKDARFQDHQDHALLLSTTDVPASESATVTSATFPAPIKSSPCELRMSWLIRGVLR  
 GNVSLVLVENKTGKEQGRMVWHVAAAYEGLSLWQWMVPLLDVSDRFWLQMVAV  
 WGQGSRAIVAFDNISISLDCYLTISGEDKILQNTAPKSRNLFERNPNKELKPGENSPR  
 QTPIFDPTVHWLFTTCGASGPHGPTQAQCNNAYQNSNLSVEVGSEGPLKGIQIWKV  
 PATDTYSISGYGAAGGKGGKNTMMRSHGVSVLGIFNLEKDDMLYILVGQQGEDACP  
 STNQLIQKVCIGENNVIEEIRVNRSVHEWAGGGGGGGGATYVFKMKDGVVPLIIA  
 AGGGGRAYGAKTDTFHPERLENNSSVLGLNGNSGAAGGGGGGWNNTSLLWAGKS  
 LQEGATGGHSCPQAMKKWGWETRGGFGGGGGGCSSGGGGGGYIGGNAASNND  
 PEMDGEDGVSFISPLGILYTPALKVMEGHGEVNIKHLYLNCSEVDECHMDPESHK  
 VICFCDHGTVLAEDGVSCIVSPTPEPHLPLSLILSVVTSALVAALVLAFGIMIVYRRKH  
 QELQAMQMELOQSPEYKLSKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRG  
 LGHGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALIISKFNHQ  
 NIVRCIGVSLQSLPRFILLELMAGGDLKSFLRETRPRPSQPSSLAMLDLLHWARDIAC  
 GCQYLEENHFIHRDIAARNCLLTCPGPGRVAKIGDFGMARDIYRASYRKGGCAML  
 VKWMPPEAFMEGIFTSKTDTSFVLLWEIFSLGYMPYPSKSNQEVLEFVTSGGRM  
 DPPKNCPPVYRIMTQCWQHQPEDRPNFAILERIEYCTQDPDVINTALPIEYGPLVE  
 EEEKVPVRPKDPEGVPPLLVSQQAAREERSPAAPPPLPTTSSGKAACKPTAAEVS  
 VRVPRGPAVEGGHVNMAFSQSNPPSELHRVHGSRNKPTSLWNPTYGSWFTEKPT  
 KKNMPIAKKEPHERGNLGLGSCVPPNVATGRLPGASLLEPSSLTANMKEVPLFR

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LRHFPCGNVNYGYQQQLPLEAATAPGAGHYEDTILKSKNSMNQPGPTRTRPLEQ  
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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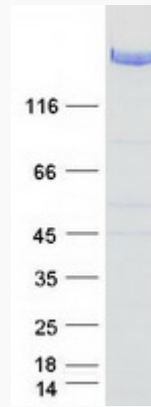
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UniProt ID


Q9UM73

SDS-PAGE



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