

## Product datasheet for PH322485

### ALK (NM\_004304) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ALK MS Standard C13 and N15-labeled recombinant protein (NP_004295)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222485
Predicted MW:	176.3 kDa
Protein Sequence:	>RC222485 representing NM_004304 Red=Cloning site Green=Tags(s)

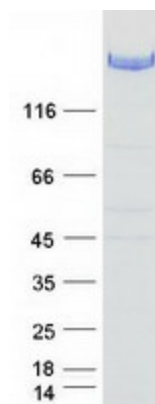
MGAIGLLWLLPLLLSTAAVGSMTGQRAGSPAAGPPLQPREPLSYSRLQRKSLAVDFVVPVSLFRVYARD  
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 LVLELGEAEILEGCVGPPGEAAVGLLQFNLSWIRQGEGRRLRRLMPEKKASEVREGRLSAAIRA  
 SQPRLLFQIFGTGHSSLESPTNMPSPSPDYFTWNLTWIMKDSFPFLSHRSRYGLECSDFPCELEYSPPL  
 HDLRNQSWRRIPSEEASQMDLLDGPGAERSKEMPRGSFLLNLSADSKHTILSPWMRSSSEHCTLAVS  
 VHRHLQPSGRYIAQLLPHNEAAREILLMPTPGKHGWTVLQGRIGRPDNPFRVALEYISSGNRSLSAVDF  
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 QGTLSPHTPQWQVRTLKDARFQDHDHALLLSTTDVPAESATVTSATFPAPIKSSPCELRMSWLIRGVL  
 RGNVSLVVENKTGKEQGRMVVHVAAYEGLSLWQWMLPLLDVSDRFWLQMVAVWVGQGSRAIVAFDNI  
 SILDCYL TISGEDKILQNTAPKSRNL FERNPNKELKPGENSPRQTPIFDPTVHWLFTTCGASGPHGPTQAQ  
 CNNAYQNSNL SVEVGSEGPLKGIQIWKVPATDTYSISGYAAGGKGGKNTMMRSHGVSVLGIFNLEKDDM  
 LYILVGQQGEDACPSTNQLIQKVICGENNVIEEIRVNRSVHEWAGGGGGGGATYVFKMKDGVVPLII  
 AAGGGGRAYGAKTDTFHPERLENNSSVLGLNGNSGAAGGGGGWNDNTSLLWAGKSLQEGATGGHSCPQAM  
 KKWGWETRGGFGGGGGCSSGGGGGYIGGNAASNNDPEMDGEDGVSFISPLGILYTPALKVMEGHGEVN  
 IKHYLNCSHCEVDECHMDPESHKVICFDHGTVLAEDGVSCIVSPTPEPHLPLSLILSVVTSALVAALVL  
 AFSGIMIVYRRKHQELQAMQELQSPEYKLSKLRSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIR  
 GLGHGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALII SKFNHQNIVRCIGVSLQSL  
 PRFILLELMAGGDLKSFLRETRPRSPSSLA MLDLLHVARDIACGCQYLEENHF IHRDIAARNCLLTC  
 PGPRVAKIGDFGMARDIYRASYYRKGCCAMLPVKWMPPEAFMEGIFTSKTDTWSFGVLLWEIFSLGYMPY  
 PSKSNQEVLEFVTSGGRMDDPKNCPGPVYRIMTQCWQHQPEDRPNFAIILERIEYCTQDPDVINTALPIE  
 YGPLVEEEEKVPVRPKDPEGVPLLVSSQAKREEERSPAAPPPLPTTSSGKAARKPTAAEVSVRVPRGPA  
 VEGGHVMAFSQSNPPSELHRVHGSRNKPTSLWNPTYGSWFTEKPTKKNPIAKKEPHERGNLGLGEGSCT  
 VPPNVATGRLPGASLLEPSSLTANMKEVPLFRLRHFPCGNVNYGYQQGLPLEAATAPGAGHYEDTILK  
 SKNSMNQPGP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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<b>Tag:</b>	C-Myc/DDK
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_004295</a>
<b>RefSeq Size:</b>	6222
<b>RefSeq ORF:</b>	4860
<b>Synonyms:</b>	CD246; NBLST3
<b>Locus ID:</b>	238
<b>UniProt ID:</b>	<a href="#">Q9UM73</a> , <a href="#">B6D4Y2</a>
<b>Cytogenetics:</b>	2p23.2-p23.1
<b>Summary:</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>
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Product images:**

Coomassie blue staining of purified ALK protein (Cat# [TP322485]). The protein was produced from HEK293T cells transfected with ALK cDNA clone (Cat# [RC222485]) using MegaTran 2.0 (Cat# [TT210002]).