

## Recombinant Human ALK, His-tagged

Cat. No. ALK-10H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ALK, fused with N-terminal HIS, was expressed in Sf9 cells.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Arg1060-Pro1620
<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).</p>
<b>Molecular Mass</b>	62 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	50mM Tris-HCl pH8.0, 150mM NaCl, 10%glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	ALK anaplastic lymphoma receptor tyrosine kinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	ALK
<b>Synonyms</b>	ALK; CD246; NBLST3; anaplastic lymphoma receptor tyrosine kinase; ALK tyrosine kinase receptor; CD246 antigen; mutant anaplastic lymphoma kinase; NP_004295.2; EC 2.7.10.1
<b>Gene ID</b>	<a href="#">238</a>
<b>mRNA Refseq</b>	<a href="#">NM_004304</a>
<b>Protein Refseq</b>	<a href="#">NP_004295</a>
<b>MIM</b>	<a href="#">105590</a>
<b>UniProt ID</b>	Q9UM73
<b>Chromosome Location</b>	2p23
<b>Pathway</b>	Non-small cell lung cancer

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**Function**

ATP binding; NF-kappaB-inducing kinase activity; protein binding

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