

Active Recombinant Human ALK Protein, GST-tagged

Cat. No. ALK-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ALK (L1196M G1202R) (1060-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
ProteinLength	1060-end a.a.
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).
Bio-activity	18 nmol/min/mg

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Molecular Mass	90 kDa
Purity	> 80%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

GENE INFORMATION

Gene Name	ALK ALK receptor tyrosine kinase [Homo sapiens (human)]
Official Symbol	ALK
Synonyms	ALK; ALK receptor tyrosine kinase; CD246; NBLST3; ALK tyrosine kinase receptor; CD246 antigen; anaplastic lymphoma receptor tyrosine kinase; mutant anaplastic lymphoma kinase; EC 2.7.10.1
Gene ID	238
mRNA Refseq	NM_004304
Protein Refseq	NP_004295

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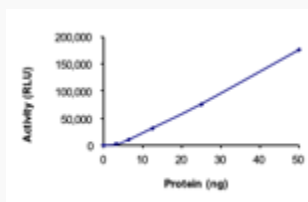
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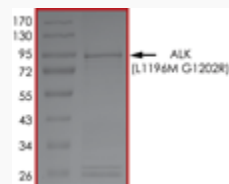
UniProt ID Q9UM73

Specific Activity



The specific activity of ALK (L1196M G1202R) was determined to be 18 nmol/min/mg as per activity assay protocol, and was equivalent to 28 nmol/min/mg as per radiometric assay.

Purity



The purity of ALK (L1196M G1202R) was determined to be >80% by densitometry.