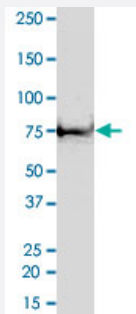


Bioactive

ALK (Human) Recombinant Protein

Catalog # P4644 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description

Human ALK (NP_004295.2, 1066 a.a. - 1437 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.

Sequence

LQAMQMELQSPEYKLSKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNITLIRGLGHGAFGEVYE
GQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALISKFNHQNIVRCIGVSLQSLPRFILLELM
AGGDLKSFLRETRPRPSQPSSLAMDLLHVARDIACGCQYLEENHFIHRDIAARNCLLTCPGPGR
VAKIGDFGMARDIYRASYRKGGCAMLVPKWWPPEAFMEGIFTSKTDTSFSGVLLWEIFSLGYMP
YPSKSNQEVLEFVTSGGRMDPPKNCPPVYRIMTQCWQHQPEDRPNFAILLERIEYCTQDPDVINT
ALPIEYGPLVEEEEKVPVRPKDPEGVPPLLVSQQAKREEERS

Host

insect

Theoretical MW (kDa)

75.5

Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST affinity chromatography
Activity	93 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — ALK

Entrez GeneID	238
Protein Accession#	NP_004295.2
Gene Name	ALK
Gene Alias	CD246, Ki-1, TFG/ALK
Gene Description	anaplastic lymphoma receptor tyrosine kinase
Omim ID	105590
Gene Ontology	Hyperlink

Gene Summary

The 2;5 chromosomal translocation is frequently associated with anaplastic large cell lymphomas (ALCLs). The translocation creates a fusion gene consisting of the ALK (anaplastic lymphoma kinase) gene and the nucleophosmin (NPM) gene: the 3' half of ALK, derived from chromosome 2, is fused to the 5' portion of NPM from chromosome 5. A recent study shows that the product of the NPM-ALK fusion gene is oncogenic. The deduced amino acid sequences reveal that ALK is a novel receptor protein-tyrosine kinase having a putative transmembrane domain and an extracellular domain. These sequences are absent in the product of the transforming NPM-ALK gene. ALK shows the greatest sequence similarity to LTK (leukocyte tyrosine kinase). ALK plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. [provided by RefSeq]

Other Designations

ALK tyrosine kinase receptor|CD246 antigen|anaplastic lymphoma kinase (Ki-1)|anaplastic lymphoma kinase Ki-1

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Multiple Sclerosis](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)