

Product Information

MemDX™ Membrane Protein Human ALK (ALK receptor tyrosine kinase) Full Length

Cat. No.: **MPC2013K**

This product is for research use only and is not intended for diagnostic use.

This product is a 176.4 kDa Human ALK membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ALK

Protein Length

Full length

Protein Class

Transferase

Molecular Weight

176.4 kDa

TMD

1

Sequence

MGAIGLLWLLPLLLSTAAVGSGMG TGQRAGSPAAGPPLQPREPLSYSRLQ
RKSLAVDFVVP SLFRVYARDLLLPPSSSELKAGRPEARGLALDCAPLLR
LLGPAPGVSWTAGSPAPAEARTLSRV LKGGSVRKLRRAKQLVLELGEEAI
LEGCVGPPGEAAVGLLQFNLS ELSFWWIRQGEGR LRIRLMPEKKASEVGR
EGRLSAAIRASQPRLLFQIFGTGHSSLESPTNMPSPSPDYFTWNLTWIMK
DSFPFLSHRSRYGLECSFDFPCELEYSPLHDLRNQSWSWRRIPSEEEASQ
MDLLDGPGAERSKEMPRGSFLLLNTSADSKHTILSPWMRSSSEHCTLAVS
VHRHLQPSGRYIAQLLPHNEAAREILLMPTPGKHGWTVLQGRIGRPDNP
RVALEYISSGNRSLSAVDFFALKNCSEGTSPGSKMALQSSFTCWNGTVLQ
LGQACDFHQDCAQGEDESQMCRKLPVGFYCNFEDGFCGWTQGTLSPHTPQ
WQVRTLKDARFQDHDHALLSTTDVPASESATVTSATFPAPIKSSPCEL
RMSWLIRGVLRGNVSLVLVENKTGKEQGRMVWHVAAYEGLSLWQWMVLPL
LDVSDRFWLQMVAVWWGQGSRAIVAFDNISISLDCYLTISGEDKILQNTAP
KSRNLFERNPNKELKPGENSPRQTPIFDPTVHWLFTTCGASGPHGPTQAAQ
CNNAYQNSNLSVEVGSEGPLKGIQWKVPATDTYSISGYGAAGGKGGKNT
MMRSHGVSVLGIFNLEKDDMLYILVGQQGEDACPSTNQLIQKVCIGENNV
IEEEIRVNRSVHEWAGGGGGGGGATYVFKMKDGVVPVPLIIAAGGGGRAYG
AKTDTFHPERLENNSSVLGLNGNSGAAGGGGGWNDNTSLLWAGKSLQEGA
TGGHSCPQAMKKWGWETRGGFGGGGGGCGSSGGGGGGYIGGNAASNNDPEM
DGEDGVSFISPLGILYTPALKVMEGHGEVNIKHLYLNC SHCEVDECHMDPE
SHKVICFCDHGTVLAEDGVSCIVSPTPEPHLPLSLILSVVTSALVAALVL

AFSGIMIVYRRKHQELQAMQMELQSPEYKLSKLRTSTIMTDYNPNYCFAG
KTSSISDLKEVPRKNITLIRGLGHGAFGEVYEGQVSGMPNDPSPLQVAVK
TLPEVCSEQDELDFLMEALIISKFNHQNIVRCIGVSLQSLPRFILLELMA
GGDLKSFLRETRPRPSQPSSLAMLDLLHWARDIACGCQYLEENHFIHRDI
AARNCLLTCPGPGRVAKIGDFGMARDIYRASYRKGGCAMLVPKWWMPPEA
FMEGIFTSKTDTWFSGLLWEIFSLGYMPYPSKSNQEVLEFVTSGGRMDP
PKNCPGPVYRIMTQCWQHQPEDRPNFAILERIEYCTQDPDVINTALPIE
YGPLVEEEEKVPVRPKDPEGVPPLLVSQQAKREEERSPAAPPPLPTTSSG
KAAKKPTAAEISVRVPRGPAVEGGHVNMAFSQSNPPSELHKVHGSRNKPT
SLWNPTYGSGWTEKPTKKNPIAKKEPHDRGNLGLGSGCTVPPNVATGRL
PGASLLLEPSSLTANMKEVPLFRLRHFPCGNVNYGYQQQLPLEAATAPG
AGHYEDTILKSKNSMNQPGP

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ALK

Full Name

ALK receptor tyrosine kinase

Introduction

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).

Alternative Names

ALK; CD246; NBLST3; ALK tyrosine kinase receptor; CD246 antigen; anaplastic lymphoma receptor tyrosine kinase; mutant anaplastic lymphoma kinase; ALK receptor tyrosine kinase

Gene ID

[238](#)

UniProt ID

[Q9UM73](#)