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Product datasheet for TP521949

Alk (NM_007439) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse anaplastic lymphoma kinase (Alk), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T

View online »

Expression cDNA Clone or AA Sequence:

>MR221949 representing NM_007439
Red=Cloning site Green=Tags(s)

MGAAGFLWLLPPLLLAAASYSGAATDQRAGSPASGPPLQPREPLSYSRLQRKSLAVDFVVPSLFRVYARD
LLLPQPRSPSEPEAGGLEARGSLALDCEPLLRLLGPLPGISWADGASSPSPEAGPTLSRVLKGGSVRKLR
RAKQLVLELGEETILEGCIGPPEEVAAVGILQFNLSELFSWWILHGEGRLRIRLMPEKKASEVGREGRLS
SAIRASQPRLLFQIFGTGHSSMESPSETPSPPGTFMWNLTWTMKDSFPFLSHRSRYGLECSFDFPCELEY
SPPLHNHGNQSWSWRHVPSEEASRMNLLDGPEAEHSQEMPRGSFLLLNTSADSKHTILSPWMRSSSDHCT
LAVSVHRHLQPSGRYVAQLLPHNEAGREILLVPTPGKHGWTVLQGRVGRPANPFRVALEYISSGNRSLSA
VDFFALKNCSEGTSPGSKMALQSSFTCWNGTVLQLGQACDFHQDCAQGEDEGQLCSKLPAGFYCNFENGF
CGWTQSPLSPHMPRWQVRTLRDAHSQGHQGRALLLSTTDILASEGATVTSATFPAPMKNSPCELRMSWLI
RGVLRGNVSLVLVENKTGKEQSRTVWHVATDEGLSLWQHTVLSLLDVTDRFWLQIVTWWGPGSRATVGFD
NISISLDCYLTISGEEKMSLNSVPKSRNLFEKNPNKESKSWANISGPTPIFDPTVHWLFTTCGASGPHGP
TQAQCNNAYQNSNLSVVVGSEGPLKGVQIWKVPATDTYSISGYGAAGGKGGKNTMMRSHGVSVLGIFNLE
KGDTLYILVGQQGEDACPRANQLIQKVCVGENNVIEEEIRVNRSVHEWAGGGGGGGGATYVFKMKDGVPV
PLIIAAGGGGRAYGAKTETFHPERLESNSSVLGLNGNSGAAGGGGGWNDNTSLLWAGKSLLEGAAGGHSC
PQAMKKWGWETRGGFGGGGGGCSSGGGGGGYIGGNAASNNDPEMDGEDGVSFISPLGILYTPALKVMEGH
GEVNIKHYLNCSHCEVDECHMDPESHKVICFCDHGTVLADDGVSCIVSPTPEPHLPLSLILSVVTSALVA
ALVLAFSGIMIVYRRKHQELQAMQMELQSPEYKLSKLRTSTIMTDYNPNYCFAGKTSSISDLKEVPRKNI
TLIRGLGHGAFGEVYEGQVSGMPNDPSPLQVAVKTLPEVCSEQDELDFLMEALIISKFNHQNIVRCIGVS
LQALPRFILLELMAGGDLKSFLRETRPRPNQPTSLAMLDLLHVARDIACGCQYLEENHFIHRDIAARNCL
LTCPGAGRIAKIGDFGMARDIYRASYYRKGGCAMLPVKWMPPEAFMEGIFTSKTDTWSFGVLLWEIFSLG
YMPYPSKSNQEVLEFVTSGGRMDPPKNCPGPVYRIMTQCWQHQPEDRPNFAIILERIEYCTQDPDVINTA
LPIEYGPVVEEEEKVPMRPKDPEGMPPLLVSPQPAKHEEASAAPQPAALTAPGPSVKKPPGAGAGAGAGA
GAGPVPRGAADRGHVNMAFSQPNPPPELHKGPGSRNKPTSLWNPTYGSWFTEKPAKKTHPPPGAEPQARA
GAAEGGWTGPGAGPRRAEAALLLEPSALSATMKEVPLFRLRHFPCGNVNYGYQQQGLPLEATAAPGDTML
KSKNKVTQPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 175.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C after receiving vials.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP_031465

Locus ID:	11682
UniProt ID:	P97793
RefSeq Size:	5918
Cytogenetics:	17 43.77 cM
RefSeq ORF:	4863
Synonyms:	CD246; Tcrz
Summary:	Neuronal receptor tyrosine kinase that is essentially and transiently expressed in specific regions of the central and peripheral nervous systems and plays an important role in the genesis and differentiation of the nervous system. Transduces signals from ligands at the cell surface, through specific activation of the mitogen-activated protein kinase (MAPK) pathway. Phosphorylates almost exclusively at the first tyrosine of the Y-x-x-x-Y-Y motif. Following activation by ligand, ALK induces tyrosine phosphorylation of CBL, FRS2, IRS1 and SHC1, as well as of the MAP kinases MAPK1/ERK2 and MAPK3/ERK1. Acts as a receptor for ligands pleiotrophin (PTN), a secreted growth factor, and midkine (MDK), a PTN-related factor, thus participating in PTN and MDK signal transduction. PTN-binding induces MAPK pathway activation, which is important for the anti-apoptotic signaling of PTN and regulation of cell proliferation. MDK-binding induces phosphorylation of the ALK target insulin receptor substrate (IRS1), activates mitogen-activated protein kinases (MAPKs) and PI3-kinase, resulting also in cell proliferation induction. Drives NF-kappa-B activation, probably through IRS1 and the activation of the AKT serine/threonine kinase. Recruitment of IRS1 to activated ALK and the activation of NF-kappa-B are essential for the autocrine growth and survival signaling of MDK.[UniProtKB/Swiss-Prot Function]