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Datasheet for ABIN7368874

## anti-ALK antibody (AA 1402-1604) (FITC)

### Overview

Quantity:	50 µg
Target:	ALK
Binding Specificity:	AA 1402-1604
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALK antibody is conjugated to FITC
Application:	Please inquire

### Product Details

Immunogen:	Recombinant Human ALK tyrosine kinase receptor protein (1402-1604AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	ALK
Alternative Name:	ALK ( <a href="#">ALK Products</a> )
Background:	Background: 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

## Target Details

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. Aliases: Alk antibody, ALK tyrosine kinase receptor antibody, ALK/EML4 fusion gene, included antibody, ALK/NPM1 fusion gene, included antibody, ALK\_HUMAN antibody, anaplastic lymphoma kinase (Ki-1) antibody, Anaplastic lymphoma kinase antibody, Anaplastic lymphoma kinase Ki1 antibody, anaplastic lymphoma receptor tyrosine kinase antibody, CD 246 antibody, CD246 antibody, CD246 antigen antibody, EC 2.7.10.1 antibody, Ki 1 antibody, Ki1 antibody, mutant anaplastic lymphoma kinase antibody, NBLST 3 antibody, NBLST3 antibody, Tcrz antibody, TFG/ALK antibody

UniProt: [Q9UM73](#)

Pathways: [RTK Signaling](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

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Storage: -20 °C, -80 °C

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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.