Datasheet for ABIN7368872

anti-ALK antibody (AA 1402-1604)

2 Images

Go to Product page

Overview

Quantity:	50 µg
Target:	ALK
Binding Specificity:	AA 1402-1604
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALK antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

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 (ALK Products)
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

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

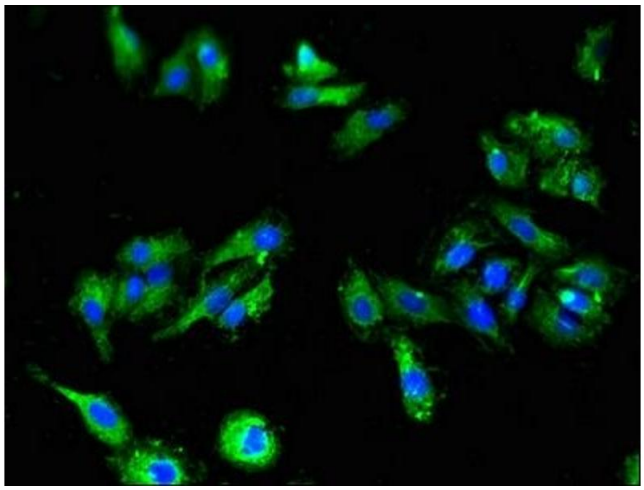
Handling

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

Handling

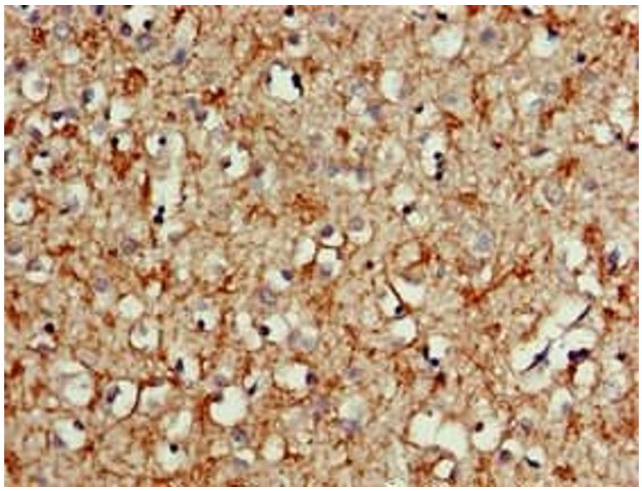
	handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of HepG2 cells using at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human brain tissue using at dilution of 1:100