



#### **ALK**

Mouse Monoclonal antibody(Mab)
Catalog # AD80132

## **Specification**

#### **ALK - Product info**

Application IHC-P
Primary Accession Q9UM73
Reactivity Human
Host Mouse
Clonality Monoclonal
Calculated MW 176442

#### **ALK - Additional info**

Gene ID 238
Gene Name ALK

**Other Names** 

ALK tyrosine kinase receptor, 2.7.10.1, Anaplastic lymphoma kinase, CD246, ALK {ECO:0000303|PubMed:9174053, ECO:0000312|HGNC:HGNC:427}

**Dilution** 

IHC-P~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions ALK Antibody is for research use only and

not for use in diagnostic or therapeutic

procedures.

## **ALK - Protein Information**

Name ALK {ECO:0000303|PubMed:9174053, ECO:0000312|HGNC:HGNC:427}

Function 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-Y-Y motif. Following activation by

ligand, ALK induces tyrosine

phosphorylation of CBL, FRS2, IRS1 and



Cellular Location

Tissue Location

## **ALK - Protocols**

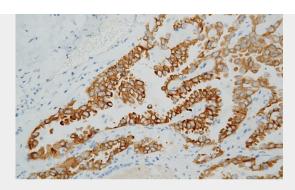
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

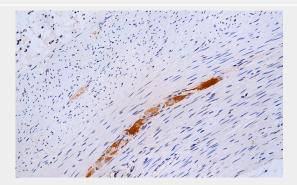
# **ALK - Images**

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. Cell membrane; Single-pass type I membrane protein Note=Membrane attachment was crucial for promotion of neuron-like differentiation and cell proliferation arrest through specific activation of the MAP kinase pathway **Expressed in brain and CNS. Also** expressed in the small intestine and testis, but not in normal lymphoid cells





## Lung adenocarcinoma



Immunohistochemical analysis of paraffin-embedded vermiform appendix tissue using AD80132 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems Abcepta: AR005 was used as the secondary antibody.