

Datasheet for ABIN3029935  
**anti-ALK antibody (AA 1517-1550)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	0.4 mL
Target:	ALK
Binding Specificity:	AA 1517-1550
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	This Alk antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 1517-1550 amino acids mouse Alk.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

## Target Details

Target:	ALK
Alternative Name:	Alk ( <a href="#">ALK Products</a> )
Background:	Anaplastic lymphoma kinase is a neuronal orphan 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

## Target Details

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. [UniProt]

UniProt: [P97793](#)

Pathways: [RTK Signaling](#)

## Application Details

Application Notes: Titration of the Alk antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:2000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

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

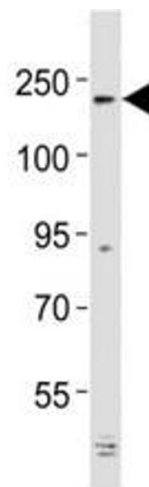
Storage: -20 °C

Storage Comment: Aliquot the Alk antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



**Western Blotting**

**Image 1.** Western blot testing of Alk antibody at 1:2000 dilution + mouse cerebellum lysate; Predicted molecular weight: 190-220 kDa.



**Western Blotting**

**Image 2.** Western blot testing of Alk antibody at 1:2000 dilution + mouse cerebellum lysate