

## Mouse Alk Antibody (P1517)

Catalog_no :	AB3262
Reactivity :	M
Category :	抗原抗体
Size :	100 $\mu$ L/50 $\mu$ L
Immunogen :	HUMAN
Specificity :	This Mouse Alk antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1517-1550 amino acids Mouse Alk.
Dilution :	WB,1:2000;
Other_name :	ALK tyrosine kinase receptor, Anaplastic lymphoma kinase, CD246, Alk
Isotype :	Rabbit Ig
Background :	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 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.
reference :	Iwahara T.,et al.Oncogene 14:439-449(1997). Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009). Motegi A.,et al.J. Cell Sci. 117:3319-3329(2004). Vernersson E.,et al.Gene Expr. Patterns 6:448-461(2006). Kuo A.H.,et al.Oncogene 26:859-869(2007).