

### ARG65618 anti-ALK antibody

Package: 100 μg Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes ALK
Tested Reactivity	Rat
Predict Reactivity	Ms
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Target Name	ALK
Species	Mouse
Immunogen	Synthetic peptide around the center region of Mouse Alk (C-TETFHPERLESNS)
Conjugation	Un-conjugated
Alternate Names	CD antigen CD246; Anaplastic lymphoma kinase; CD246; ALK tyrosine kinase receptor; EC 2.7.10.1; NBLST3

#### **Application Instructions**

Application table	Application	Dilution
	WB	0.03 - 0.1 μg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid	
Purification	Affinity purification with immunogen.	
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA	
Preservative	0.02% Sodium azide	
Stabilizer	0.5% BSA	
Concentration	0.5 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.	
Note	For laboratory research only, not for drug, diagnostic or other use.	

## Bioinformation

Alk
anaplastic lymphoma kinase
This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This protein comprises an extracellular domain, an hydrophobic stretch corresponding to a single pass transmembrane region, and an intracellular kinase domain. It plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. This gene has been found to be rearranged, mutated, or amplified in a series of tumours including anaplastic large cell lymphomas, neuroblastoma, and non-small cell lung cancer. The chromosomal rearrangements are the most common genetic alterations in this gene, which result in creation of multiple fusion genes in tumourigenesis, including ALK (chromosome 2)/EML4 (chromosome 2), ALK/RANBP2 (chromosome 2), ALK/ATIC (chromosome 2), ALK/TFG (chromosome 10), ALK/CLTC (chromosome 17), ALK/TPM4 (chromosome 19), and ALK/MSN (chromosome X).[provided by RefSeq, Jan 2011]
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 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. Drives NF-kappa-B activation, probably through IRS1 and the activation of NF-kappa-B are essential for the autocrine growth and survival signaling of MDK.
Cancer antibody; Controls and Markers antibody; Neuroscience antibody
176 kDa
Phosphorylated at tyrosine residues by autocatalysis, which activates kinase activity. In cells not stimulated by a ligand, receptor protein tyrosine phosphatase beta and zeta complex (PTPRB/PTPRZ1) dephosphorylates ALK at the sites in ALK that are undergoing autophosphorylation through autoactivation. Phosphorylation at Tyr-1507 is critical for SHC1 association. N-glycosylated.

# Images

250kl 150kl 100kl 75kD 50kD 37kD	Da Westeri A ALK ant	a18 anti-ALK antibody WB image n blot: 35 μg of Rat Brain lysate stained with ARG65618 anti- ibody at 0.03 μg/ml dilution (1h incubation).
25kD	a	
20kD	а	
15kDa	a	