

# Product datasheet

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ARG58060 anti-ALK antibody

Package: 100 μl Store at: -20°C

### Summary

Product Description Rabbit Polyclonal antibody recognizes ALK

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name ALK

Species Human

Immunogen Synthetic peptide derived from Human ALK.

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
	ICC/IF	1:50 - 1:100
	IHC-P	1:100 - 1:500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

## **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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

Gene Symbol ALK

Gene Full Name anaplastic lymphoma receptor tyrosine kinase

Background This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This

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 3), ALK/NPM1 (chromosome 5), ALK/SQSTM1 (chromosome 5), ALK/KIF5B (chromosome 10), ALK/CLTC (chromosome 17), ALK/TPM4 (chromosome 19), and ALK/MSN (chromosome X) [provided by Refere, Jan 2011]

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-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]

ALK antibodies: ALK ELISA Kits; ALK Duos / Panels; Anti-Rabbit IgG secondary antibodies;

Related news:

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Cholesterol, the weakness of anaplastic large cell lymphoma (ALCL)

Calculated Mw 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.

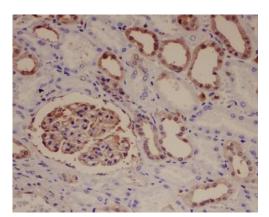
N-glycosylated. [UniProt]

#### **Images**

Function

Highlight

PTM



#### ARG58060 anti-ALK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney stained with ARG58060 anti-ALK antibody.