

Datasheet for ABIN6654206
anti-ALK antibody



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Overview

Quantity:	100 µg
Target:	ALK
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This ALK antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant full length human protein was used as the immunogen for this recombinant ALK antibody.
Clone:	ATKR-2R
Isotype:	IgG kappa
Purification:	Purified
Purity:	Protein A affinity

Target Details

Target:	ALK
Alternative Name:	ALK / Anaplastic Lymphoma Kinase (ALK Products)
Background:	Neuronal receptor tyrosine kinase that is essentially and transiently expressed in specific

Target Details

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 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]

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Optimal dilution of the recombinant ALK antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min. IHC (FFPE): 1-2 µg/mL for 30 min at RT, Prediluted IHC only format: incubate for 30 min at RT (1)

Restrictions: For Research Use only

Handling

Buffer: 0.2 mg/mL in 1X PBS with 0.1 mg/mL BSA (US sourced) and 0.05 % 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: 4 °C, -20 °C

Storage Comment: Store the recombinant ALK antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).