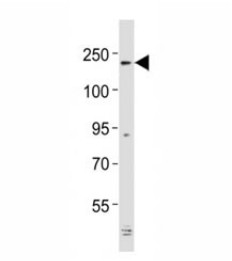
Alk Antibody / Anaplastic lymphoma kinase (F53252)

Catalog No.	Formulation	Size
F53252-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53252-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P97793
Applications	Western blot: 1:2000
Limitations	This Alk antibody is available for research use only.



ALK Antibody Mouse Cerebellum WB. Western blot analysis of mouse cerebellum lysate using ALK antibody at 1:2000 dilution demonstrates a high molecular weight band migrating near 200-220 kDa, consistent with the predicted molecular weight range of Anaplastic lymphoma kinase / ALK. The observed signal supports expression of this receptor tyrosine kinase within neuronal tissue and aligns with the established role of ALK in nervous system-associated signaling pathways.

Description

Alk Antibody specifically detects Anaplastic lymphoma kinase, 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 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]

For additional ALK and oncogenic kinase research antibodies targeting fusion protein signaling, lung cancer biomarkers, and lymphoma-associated receptor tyrosine kinase pathways, explore the broader ALK Antibody page featuring recombinant rabbit monoclonal clone ALK1/6698R.

Application Notes

Titration of the Alk antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Alk antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 1517-1550 amino acids mouse Alk.

Storage

Aliquot the Alk antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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