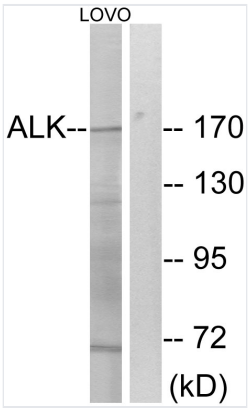
ALK Antibody

PRODUCT OVERVIEW

Product Name	ALK, Antibody
Full Product Name	ALK (Ab-1507) Antibody
Product Gene Name	anti-ALK antibody
Product Synonym Names	ALK tyrosine kinase receptor precursor; Anaplastic lymphoma kinase; CD246; EC 2.7.10.1; kinase ALK
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	ALK (Ab-1507) antibody detects endogenous levels of total ALK protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	176,442 Da
OMIM	105590
3D Structure	ModBase 3D Structure for Q9UM73
Immunogen	The antiserum was produced against synthesized non-phosphopeptide derived from human ALK around the phosphorylation site of tyrosine 1507(P-T-YP-G-S).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ALK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ALK antibody	WB: 1:500-1:1000 ELISA: 1:1000
Related Product Information for anti-ALK antibody	MBS8509537 is an antibody targeting ALK. Also known as ALK (Ab-1507) Antibody. Reactive in Human, Mouse.
Product References and Citations for anti-ALK antibody	Morris S.W., Oncogene 14:2175-2188(1997). Morris S.W., Oncogene 15:2883-2883(1997). Iwahara T., Oncogene 14:439-449(1997).
Other Notes	Small volumes of anti-ALK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ALK antibody
Western blot analysis of extracts from LOVO cells, using ALK (Ab-1507) antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALK. It may not necessarily be applicable to this product.

NCBI GI #	29029632
NCBI GeneID	238
NCBI Accession #	NP_004295.2
UniProt Primary Accession #	Q9UM73
UniProt Secondary Accession #	Q4ZFX9; Q53QQ6; Q53RZ4; Q59FI3; Q9Y4K6
UniProt Related Accession #	Q9UM73
GenBank Nucleotide #	NM_004304.4
NCBI Official Full Name	ALK tyrosine kinase receptor isoform 1
NCBI Official Synonym Full Names	ALK receptor tyrosine kinase
NCBI Official Symbol	ALK
NCBI Official Synonym Symbols	CD246; NBLST3
UniProt Protein Name	ALK tyrosine kinase receptor
UniProt Synonym Protein Names	Anaplastic lymphoma kinase; CD_antigen: CD246
Protein Family	ALK tyrosine kinase receptor
UniProt Gene Name	ALK
NCBI Protein Information	ALK tyrosine kinase receptor
NCBI Summary for ALK	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 RefSeq, Jan 2011]

UniProt Comments for ALK	Neuronal 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.
Research Articles on ALK	**1.** point out the importance of taking into account both histopathologic and ALK immunohistochemical features to interpret ALK fluorescence in situ hybridization analyses in inflammatory and necrotic tumors
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