Phospho-ALK (Tyr1604) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	ALK, Blocking Peptide
Full Product Name	Phospho-ALK (Tyr1604) Blocking Peptide
Product Gene Name	ALK blocking peptide
Product Synonym Names	Alk; ALK tyrosine kinase receptor; ALK/EML4 fusion gene, included; ALK/NPM1 fusion gene, included; ALK_HUMAN; anaplastic lymphoma kinase (Ki-1); Anaplastic lymphoma kinase; Anaplastic lymphoma kinase Ki1; anaplastic lymphoma receptor tyrosine kinase; CD 246; CD246; CD246 antigen; EC 2.7.10.1; Ki 1; Ki1; mutant anaplastic lymphoma kinase; NBLST 3; NBLST3; Tcrz; TFG/ALK
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ALK (Tyr1604) peptide (MBS9615195) is used for blocking the activity of ALK (Tyr1604) antibody (MBS9600639)
Molecular Weight	176,442 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (29415640..30144477, complement). Location: 2p23
OMIM	105590
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ALK blocking peptide	Blocking/Control
Related Product Information for ALK blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of ALK blocking peptide 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.
Searchable Terms for ALK purchase	MBS9615195 is a blocking peptide targeting ALK. Also known as Phospho-ALK (Tyr1604) Blocking Peptide.

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
NCBI Official Synonym Full Names	anaplastic lymphoma 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
Protein Family	ALK tyrosine kinase receptor
UniProt Gene Name	ALK
UniProt Entry Name	ALK_HUMAN
NCBI Protein Information	ALK tyrosine kinase receptor; CD246 antigen; mutant anaplastic lymphoma kinase
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	ALK: a tyrosine kinase of the ALK family. Plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. Translocated and expressed as a fusion protein in anaplastic lymphoma. About one third of large-cell lymphomas are caused by a t(2;5)(p23;q35) translocation that fuses ALK to nucleophosmin (NPM1A). Other cases caused by fusions of ALK to moesin, non-muscle myosin heavy chain 9, clathrin heavy chain and other genes. Several fusions also seen in inflammatory myofibroblastic tumors, and expression has been briefly noted in a range of tumors Protein type: Protein kinase, tyrosine (receptor); Membrane protein, integral; Kinase, protein; Oncoprotein; EC 2.7.10.1; Protein kinase, TK; TK group; Alk family Chromosomal Location of Human Ortholog: 2p23 Cellular Component: protein complex; integral to plasma membrane Molecular Function: NF-kappaB-inducing kinase activity; protein binding; protein-tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: regulation of apoptosis; cell proliferation; peptidyl-tyrosine phosphorylation; activation of MAPK activity; protein amino acid autophosphorylation; neuron development; signal transduction; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; activation of NF-kappaB transcription factor Disease: Neuroblastoma, Susceptibility To, 3
Research Articles on ALK	**1.** Our investigation of the mechanisms underlying the decrease in miR-26a in this lymphoma revealed novel evidence that STAT3, a major downstream substrate of NPM-ALK tyrosine kinase activity, suppresses MIR26A1 gene expression.

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