AATK Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	AATK, Blocking Peptide
Full Product Name	AATK Peptide - C-terminal region
Product Gene Name	AATK blocking peptide
Product Synonym Gene Name	AATK; AATYK; KIAA0641; LMR1; LMTK1;
Sequence	Synthetic peptide located within the following region: APNRPQQADG SPNGSTAEEG GGFAWDDDFP LMTAKAAFAM ALDPAAPAPA
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	AATK peptide (MBS3244280) is used for blocking the activity of AATK antibody (MBS3219396)
Molecular Weight	151kDa
OMIM	605276
Product Categories/Family for AATK blocking peptide	Peptide
Applications Tested/Suitable for AATK blocking peptide	Western Blot (WB)
Related Product Information for AATK blocking peptide	This is a synthetic peptide designed for use in combination with anti-AATK Antibody, made Target Description: The protein encoded by this gene contains a tyrosine kinase domain at the N-terminus and a proline-rich domain at the C-terminus. This gene is induced during apoptosis, and expression of this gene may be a necessary pre-requisite for the induction of growth arrest and/or apoptosis of myeloid precursor cells. This gene has been shown to produce neuronal differentiation in a neuroblastoma cell line. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of AATK 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 AATK purchase	MBS3244280 is a blocking peptide targeting AATK. Also known as AATK Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	28703754
NCBI GeneID	9625
NCBI Accession #	AAH47378.1
UniProt Primary Accession #	Q6ZMQ8
UniProt Related Accession #	Q6ZMQ8

NCBI Official Full Name	AATK protein, partial
NCBI Official Synonym Full Names	apoptosis associated tyrosine kinase
NCBI Official Symbol	AATK
NCBI Official Synonym Symbols	LMR1; AATYK; LMTK1; p35BP; AATYK1; PPP1R77
UniProt Protein Name	Serine/threonine-protein kinase LMTK1
UniProt Synonym Protein Names	Apoptosis-associated tyrosine kinase; AATYK; Brain apoptosis-associated tyrosine kinase; CDK5-binding protein; Lemur tyrosine kinase 1; p35-binding protein
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	AATK
UniProt Synonym Gene Names	AATYK; KIAA0641; LMR1; LMTK1; AATYK; p35BP
UniProt Entry Name	LMTK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase LMTK1
NCBI Summary for AATK	The protein encoded by this gene contains a tyrosine kinase domain at the N-terminus and a proline-rich domain at the C-terminus. This gene is induced during apoptosis, and expression of this gene may be a necessary pre-requisite for the induction of growth arrest and/or apoptosis of myeloid precursor cells. This gene has been shown to produce neuronal differentiation in a neuroblastoma cell line. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]
UniProt Comments for AATK	Lmr1: a protein kinase kinase of the Lmr family. Predominantly expressed in the nervous system and is involved in neurite extension and apoptosis of cerebellar granule cells. Contains a tyrosine kinase domain at the N-terminal end and a proline-rich domain at the C-terminal end. May be necessary for the induction of growth arrest and/or apoptosis of myeloid cells induced by cytokine withdrawal, such as IL3, and during G-CSF-induced terminal differentiation of myeloblasts to granulocytes. Four alternatively spliced isoforms have been reported. Protein type: Protein kinase, TK; Protein kinase, tyrosine (receptor); EC 2.7.11.1; Membrane protein, integral; Kinase, protein; TK group; Lmr family Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: recycling endosome; perinuclear region of cytoplasm; endoplasmic reticulum; integral to membrane Molecular Function: protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; ATP binding Biological Process: neuron apoptosis; negative regulation of axon extension; brain development; Rab protein signal transduction
Research Articles on AATK	**1.** ATKK was validated as a target gene of miR-558, and upregulation of miR-558 was observed in radioresistant lung cancer cells. Additionally, ectopic overexpression of ATKK partially but significantly reduced the miR-558-induced radioresistance.
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