QKI Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	QKI, Blocking Peptide
Full Product Name	QKI Peptide - middle region
Product Gene Name	QKI blocking peptide
Product Synonym Gene Name	QK; Hqk; QK1; QK3; hqkI
Sequence	Synthetic peptide located within the following region: VRGKGSMRDK KKEEQNRGKP NWEHLNEDLH VLITVEDAQN RAEIKLKRAV
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	QKI peptide (MBS3246408) is used for blocking the activity of QKI antibody (MBS3221681)
Molecular Weight	34 kDa
OMIM	609590
Product Categories/Family for QKI blocking peptide	Peptide
Related Product Information for QKI blocking peptide	This is a synthetic peptide designed for use in combination with anti- QKI Antibody, made Target Description: The protein encoded by this gene is an RNA-binding protein that regulates pre-mRNA splicing, export of mRNAs from the nucleus, protein translation, and mRNA stability. The encoded protein is involved in myelinization and oligodendrocyte differentiation and may play a role in schizophrenia. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of QKI 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 QKI purchase	MBS3246408 is a blocking peptide targeting QKI. Also known as QKI Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	45827706
NCBI GeneID	9444
NCBI Accession #	NP_006766.1
UniProt Primary Accession #	Q96PU8
UniProt Related Accession #	Q96PU8
GenBank Nucleotide #	NM_001301085.1
NCBI Official Full Name	protein quaking isoform 1
NCBI Official Synonym Full Names	QKI, KH domain containing RNA binding

NCBI Official Symbol	QKI
NCBI Official Synonym Symbols	QK; Hqk; QK1; QK3; hqkI
UniProt Protein Name	Protein quaking
Protein Family	Protein quaking
UniProt Gene Name	QKI
UniProt Synonym Gene Names	HKQ; Hqk; HqkI
UniProt Entry Name	QKI_HUMAN
NCBI Protein Information	protein quaking
NCBI Summary for QKI	The protein encoded by this gene is an RNA-binding protein that regulates pre-mRNA splicing, export of mRNAs from the nucleus, protein translation, and mRNA stability. The encoded protein is involved in myelinization and oligodendrocyte differentiation and may play a role in schizophrenia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
UniProt Comments for QKI	QKI: RNA-binding protein that plays a central role in myelinization. Binds to the 5'-NACUAAY-N(1,20)-UAAY-3' RNA core sequence. Acts by regulating pre-mRNA splicing, mRNA export, mRNA stability and protein translation. Required to protect and promote stability of mRNAs such as MBP and CDKN1B. Regulator of oligodendrocyte differentiation and maturation in the brain that may play a role in myelin and oligodendrocyte dysfunction in schizophrenia. Participates in mRNA transport by regulating the nuclear export of MBP mRNA. Also involved in regulation of mRNA splicing of MAG pre-mRNA. Acts as a translational repressor. 6 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 6q26 Cellular Component: cytoplasm; nucleus Molecular Function: mRNA binding; protein binding; SH3 domain binding Biological Process: myelination; regulation of translation; muscle cell differentiation; mRNA transport; RNA splicing; long-chain fatty acid biosynthetic process; mRNA processing; vasculogenesis; spermatid development
Research Articles on QKI	**1.** Data indicate that RNA-binding protein QKI (QKI) is a target of microRNA miR-155.
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