NUAK2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	NUAK2, Blocking Peptide
Full Product Name	NUAK2 Blocking Peptide
Product Gene Name	NUAK2 blocking peptide
Product Synonym Names	DKFZp434J037; DKFZp686F01113; FLJ90349; NUAK family SNF1 like kinase 2; NUAK family SNF1-like kinase 2; Nuak2; NUAK2_HUMAN; Omphalocele kinase 2; SNARK; SNF1/AMP activated protein kinase; SNF1/AMP kinase related kinase; SNF1/AMP kinase-related kinase
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	NUAK2 peptide (MBS9622902) is used for blocking the activity of NUAK2 antibody (MBS9604185)
Molecular Weight	69,612 Da
OMIM	608131
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 NUAK2 blocking peptide	Blocking/Control
Related Product Information for NUAK2 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 NUAK2 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 NUAK2 purchase	MBS9622902 is a blocking peptide targeting NUAK2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUAK2. It may not necessarily be applicable to this product.

NCBI GI #	733214996
NCBI GeneID	81788
NCBI Accession #	NP_112214.2
UniProt Primary Accession #	Q9H093
UniProt Related Accession #	Q9H093

GenBank Nucleotide #	NM_030952.2
NCBI Official Full Name	NUAK family SNF1-like kinase 2
NCBI Official Synonym Full Names	NUAK family kinase 2
NCBI Official Symbol	NUAK2
NCBI Official Synonym Symbols	SNARK
UniProt Protein Name	NUAK family SNF1-like kinase 2
UniProt Synonym Protein Names	Omphalocele kinase 2; SNF1/AMP kinase-related kinase; SNARK
Protein Family	NUAK family SNF1-like kinase
UniProt Gene Name	NUAK2
UniProt Synonym Gene Names	SNARK
UniProt Entry Name	NUAK2_HUMAN
NCBI Protein Information	NUAK family SNF1-like kinase 2
UniProt Comments for NUAK2	NuaK2: a Ca(2+)/calmodulin-dependent protein kinase of the CAMKL family. Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Protein kinase, CAMK; EC 2.7.11.1; CAMK group; CAMKL family; NuaK subfamily Chromosomal Location of Human Ortholog: 1q32.1 Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding Biological Process: cellular response to glucose starvation; apoptosis; actin cytoskeleton organization and biogenesis; protein amino acid phosphorylation; negative regulation of apoptosis
Research Articles on NUAK2	**1.** miR143 inhibited the proliferation, migration and invasion of the glioblastoma cells by degrading NUAK2 in glioblastoma.
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