HIPK3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HIPK3, Blocking Peptide
Full Product Name	HIPK3 Blocking Peptide
Product Gene Name	HIPK3 blocking peptide
Product Synonym Names	Androgen receptor interacting nuclear protein kinase; Androgen receptor-interacting nuclear protein kinase; ANPK; DYRK6; Fas interacting serine/threonine protein kinase; Fas-interacting serine/threonine-protein kinase; FIST; FIST3; Hipk3; HIPK3_HUMAN; homeodomain interacting protein kinase 3; Homeodomain-interacting protein kinase 3; Homolog of protein kinase YAK1; PKY; RP24 297H17.5; YAK1
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	HIPK3 peptide (MBS9620415) is used for blocking the activity of HIPK3 antibody (MBS9602938)
Molecular Weight	1,856 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (33279168..33375939). Location: 11p13
OMIM	604424
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 HIPK3 blocking peptide	Blocking/Control
Related Product Information for HIPK3 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 HIPK3 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 HIPK3 purchase	MBS9620415 is a blocking peptide targeting HIPK3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIPK3. It may not necessarily be applicable to this product.

NCBI GI #	114796630
NCBI GeneID	10114
NCBI Accession #	NP_001041665.1

UniProt Primary Accession #	Q9H422
UniProt Secondary Accession #	O14632; Q2PBG4; Q2PBG5; Q92632; Q9HAS2
UniProt Related Accession #	Q9H422
GenBank Nucleotide #	NM_001048200.2
NCBI Official Full Name	homeodomain-interacting protein kinase 3 isoform 2
NCBI Official Synonym Full Names	homeodomain interacting protein kinase 3
NCBI Official Symbol	HIPK3
NCBI Official Synonym Symbols	PKY; YAK1; DYRK6; FIST3
UniProt Protein Name	Homeodomain-interacting protein kinase 3
UniProt Synonym Protein Names	Androgen receptor-interacting nuclear protein kinase; ANPK; Fas-interacting serine/threonine-protein kinase; FIST; Homolog of protein kinase YAK1
Protein Family	Homeodomain-interacting protein kinase
UniProt Gene Name	HIPK3
UniProt Synonym Gene Names	DYRK6; FIST3; PKY; ANPK; FIST
UniProt Entry Name	HIPK3_HUMAN
NCBI Protein Information	homeodomain-interacting protein kinase 3; ANPK; FIST; OTTHUMP00000163106; OTTHUMP00000163107; OTTHUMP00000232315; homolog of protein kinase YAK1; fas-interacting serine/threonine-protein kinase; androgen receptor-interacting nuclear protein kinase
UniProt Comments for HIPK3	HIPK3: homeodomain interacting protein kinase 3 is a CMGC kinase of the DYRK family. Phosphorylates FADD and inhibits fas-mediated Jun NH(2)-terminal kinase activation. Protein type: Kinase, protein; Nuclear receptor co-regulator; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CMGC; EC 2.7.11.1; CMGC group; DYRK family; HIPK subfamily Chromosomal Location of Human Ortholog: 11p13 Cellular Component: PML body; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; ATP binding; protein kinase activity Biological Process: negative regulation of JNK activity; peptidyl-serine phosphorylation; regulation of transcription, DNA-dependent; apoptosis; peptidyl-threonine phosphorylation; mRNA transcription; protein amino acid phosphorylation; negative regulation of apoptosis
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