Ki67 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Ki67, Blocking Peptide
Full Product Name	Ki67 Blocking Peptide
Product Gene Name	Ki67 blocking peptide
Product Synonym Gene Name	MKI67
Product Synonym Names	Antigen identified by monoclonal antibody Ki 67; Antigen identified by monoclonal antibody Ki-67; Antigen KI-67; Antigen KI67; Antigen Ki67; KI67_HUMAN; KIA; Marker of proliferation Ki-67; MIB 1; MIB; MKI67; PPP1R105; Proliferation marker protein Ki-67; Proliferation related Ki 67 antigen; Protein phosphatase 1 regulatory subunit 105; RP11-380J17.2
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	Ki67 peptide (MBS9617195) is used for blocking the activity of Ki67 antibody (MBS9601663)
Molecular Weight	358,694 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (129894923..129924468, complement). Location: 10q26.2
OMIM	176741
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 Ki67 blocking peptide	Blocking/Control
Related Product Information for Ki67 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 Ki67 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 Ki67 purchase	MBS9617195 is a blocking peptide targeting Ki67.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ki67. It may not necessarily be applicable to this product.

NCBI GI #	225543215
NCBI GeneID	4288

NCBI Accession #	NP_001139438.1
UniProt Primary Accession #	P46013
UniProt Secondary Accession #	Q5VWH2
UniProt Related Accession #	P46013
GenBank Nucleotide #	NM_001145966.1
NCBI Official Full Name	antigen KI-67 isoform 2
NCBI Official Synonym Full Names	antigen identified by monoclonal antibody Ki-67
NCBI Official Symbol	MKI67
NCBI Official Synonym Symbols	KIA
UniProt Protein Name	Antigen KI-67
Protein Family	Proliferation marker protein
UniProt Gene Name	MKI67
UniProt Entry Name	KI67_HUMAN
NCBI Protein Information	antigen KI-67; proliferation-related Ki-67 antigen
NCBI Summary for Ki67	This gene encodes a nuclear protein that is associated with and may be necessary for cellular proliferation. Alternatively spliced transcript variants have been described. A related pseudogene exists on chromosome X. [provided by RefSeq, Mar 2009]
UniProt Comments for Ki67	KI-67: a protein that may be a marker of proliferating cells, involved in chromatin compaction. Its expression is altered in many tumor types including osteosarcomas, histiocytomas, prostate, breast and esophageal cancers. Mutated in colon, cervical and lung cancers. Protein type: Nucleolus; Cell cycle regulation Chromosomal Location of Human Ortholog: 10q26.2 Cellular Component: membrane; cytoplasm; nucleolus; condensed chromosome; nucleus; chromosome, pericentric region Molecular Function: protein C-terminus binding; protein binding; ATP binding Biological Process: cell proliferation; meiosis
Research Articles on Ki67	**1.** Assessment of the Ki67 index remains a useful prognostic tool if assessment is performed in the relapse situation.
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