MSH5 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MSH5, Blocking Peptide
Full Product Name	MSH5 Peptide - N-terminal region
Product Gene Name	MSH5 blocking peptide
Product Synonym Gene Name	DKFZp434C1615; G7; MGC2939; MutSH5; NG23; MUTSH5
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	MSH5 peptide (MBS3230759) is used for blocking the activity of MSH5 antibody (MBS3205796)
Molecular Weight	93kDa
OMIM	603382
Product Categories/Family for MSH5 blocking peptide	Peptide
Applications Tested/Suitable for MSH5 blocking peptide	Western Blot (WB)
Related Product Information for MSH5 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MSH5 antibody made Target Description: MSH5 is a member of the mutS family of proteins that are involved in DNA mismatch repair or meiotic recombination processes. This protein is similar to a Saccharomyces cerevisiae protein that participates in meiotic segregation fidelity and crossing-over. This protein forms heterooligomers with another member of this family, mutS homolog 4. This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch repair or meiotic recombination processes. This protein is similar to a Saccharomyces cerevisiae protein that participates in meiotic segregation fidelity and crossing-over. This protein forms heterooligomers with another member of this family, mutS homolog 4. Alternative splicing results in four transcript variants encoding three different isoforms.
Other Notes	Small volumes of MSH5 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 MSH5 purchase	MBS3230759 is a blocking peptide targeting MSH5. Also known as MSH5 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSH5. It may not necessarily be applicable to this product.

NCBI GI #	26638664
NCBI GeneID	4439
NCBI Accession #	NP_751897
UniProt Primary Accession #	O43196
UniProt Related Accession #	O43196
GenBank Nucleotide #	NM_172165
NCBI Official Full Name	mutS protein homolog 5 isoform b

NCBI Official Synonym Full Names	mutS homolog 5
NCBI Official Symbol	MSH5
NCBI Official Synonym Symbols	G7; NG23; POF13; MUTSH5
UniProt Protein Name	MutS protein homolog 5
Protein Family	DNA mismatch repair protein
UniProt Gene Name	MSH5
UniProt Synonym Gene Names	hMSH5
UniProt Entry Name	MSH5_HUMAN
NCBI Protein Information	mutS protein homolog 5
NCBI Summary for MSH5	This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch repair and meiotic recombination. This protein is similar to a Saccharomyces cerevisiae protein that participates in segregation fidelity and crossing-over events during meiosis. This protein plays a role in promoting ionizing radiation-induced apoptosis. This protein forms hetero-oligomers with another member of this family, mutS homolog 4. Polymorphisms in this gene have been linked to various human diseases, including IgA deficiency, common variable immunodeficiency, and premature ovarian failure. Alternative splicing results multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 6 open reading frame 26 (C6orf26) gene. [provided by RefSeq, Feb 2011]
UniProt Comments for MSH5	MSH5: Involved in meiotic recombination. Facilitate crossovers between homologs during meiosis. Belongs to the DNA mismatch repair MutS family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: synaptonemal complex Molecular Function: DNA-dependent ATPase activity; protein binding; damaged DNA binding; ATP binding; mismatched DNA binding Biological Process: homologous chromosome segregation; meiotic recombination; chiasma formation; meiotic mismatch repair
Research Articles on MSH5	**1.** Findings indicate that carriers of the MSH5 rs707939 T allele, the MSH2 rs6544991 C allele, the MSH3 rs6151627 and rs6151670 G alleles, and the MSH3 rs7709909 T allele have poor toxicity tolerance to platinum-based chemotherapy in non-small cell lung cancer patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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