MSH5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSH5, Polyclonal Antibody
Full Product Name	MSH5, ID (MSH5, MutS protein homolog 5) (MaxLight 490)
Product Gene Name	anti-MSH5 antibody
Product Synonym Names	MSH5; MutS protein homolog 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	603382
3D Structure	ModBase 3D Structure for O43196
Immunogen	MSH5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 524-552 amino acids from the Central region of human MSH5.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MSH5 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MSH5 antibody	Western Blot (WB), FLISA
Application Notes for anti-MSH5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MSH5 antibody	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 heterooligomers 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.
Product References and Citations for anti-MSH5 antibody	Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010). Pozo, N.D., et al. Hum. Immunol. 71(9):861-864(2010). Snowden, T., et al. J. Biol. Chem. 283(1):145-154(2008). Sekine, H., et al. Proc. Natl. Acad. Sci. U.S.A. 104(17):7193-7198(2007). Yi, W., et al. Biochem. Biophys. Res. Commun. 332(2):524-532(2005).
Other Notes	Small volumes of anti-MSH5 antibody 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	MBS6322500 is an antibody targeting MSH5. Also known as MSH5, ID (MSH5, MutS protein homolog 5) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	262231786
NCBI GeneID	4439
NCBI Accession #	NP_079535.4
NCBI Related Accession #	NP_002432.1
UniProt Primary Accession #	O43196
UniProt Related Accession #	O43196
GenBank Nucleotide #	NP_079535.4
NCBI Official Full Name	mutS protein homolog 5 isoform a
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.

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