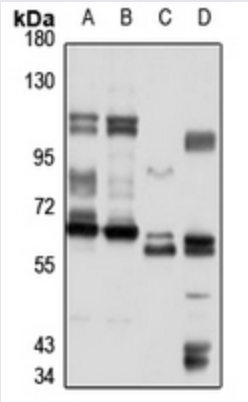
# MSH5 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MSH5, Polyclonal Antibody |
| **Full Product Name** | Anti-MSH5 Antibody |
| **Product Gene Name** | anti-MSH5 antibody |
| **Product Synonym Names** | MutS protein homolog 5; hMSH5 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide. |
| **Purity/Purification** | Purified by Immunogen Affinity Chromatography |
| **Specificity** | Recognizes endogenous levels of MSH5 protein. |
| **Preparation and Storage** | Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 92,875 Da |
| **OMIM** | 603382 |
| **3D Structure** | ModBase 3D Structure for O43196 |
| **Immunogen** | Recombinant fusion protein of human MSH5. The exact sequence is proprietary. |
| **Applications Tested/Suitable for anti-MSH5 antibody** | Western Blot (WB) |
| **Application Notes for anti-MSH5 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-MSH5 antibody** | MBS8307320 is an antibody targeting MSH5. Reactive in Human, Mouse. Host: Rabbit. Rabbit polyclonal antibody to MSH5 |
| **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. |




**Western Blot (WB) of anti-MSH5 antibody**
Western blot analysis of MSH5 expression in A375 (A), K562 (B), mouse testis (C), mouse heart (D) whole cell lysates.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 4529899 |
| **NCBI GeneID** | 4439 |
| **NCBI Accession #** | AAD21822.1 |
| **UniProt Primary Accession #** | O43196 |
| **UniProt Secondary Accession #** | Q9QUM7 |
| **UniProt Related Accession #** | O43196 |
| **NCBI Official Full Name** | MutSH5 |
| **NCBI Official Synonym Full Names** | mutS homolog 5 |
| **NCBI Official Symbol** | MSH5 |
| **NCBI Official Synonym Symbols** | G7; NG23; 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] |

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| **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.<br><br>Protein type: Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 6p21.3<br><br>Cellular Component: synaptonemal complex<br><br>Molecular Function: DNA-dependent ATPase activity; protein binding; damaged DNA binding; ATP binding; mismatched DNA binding<br><br>Biological Process: homologous chromosome segregation; meiotic recombination; chiasma formation; meiotic mismatch repair |
| **Research Articles on MSH5** | **1.** the roles of hMSH5 variants in the processes of DNA damage response and repair |
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