



# Human MSH4 blocking peptide (CDBP1909)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Blocking/Immunizing peptide for anti-MSH4 (C Terminus) antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Antigen Description</b> | This gene encodes a member of the DNA mismatch repair mutS family. This member is a meiosis-specific protein that is not involved in DNA mismatch correction, but is required for reciprocal recombination and proper segregation of homologous chromosomes at meiosis I. This protein and MSH5 form a heterodimer which binds uniquely to a Holliday Junction and its developmental progenitor, thus provoking ADP-ATP exchange, and stabilizing the interaction between parental chromosomes during meiosis double-stranded break repair. [provided by RefSeq, Aug 2011] |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>        | Apuri, BL, ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format</b>              | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Size</b>                | 100 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>             | Shipped at ambient temperature, store at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">MSH4 mutS homolog 4 (E. coli) [ Homo sapiens ]</a>                           |
| <b>Official Symbol</b> | MSH4                                                                                     |
| <b>Synonyms</b>        | MSH4; mutS homolog 4 (E. coli); mutS (E. coli) homolog 4; mutS protein homolog 4; hMSH4; |

|                            |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez Gene ID</b>      | <a href="#">4438</a>                                                                                                          |
| <b>mRNA Refseq</b>         | <a href="#">NM_002440</a>                                                                                                     |
| <b>Protein Refseq</b>      | <a href="#">NP_002431</a>                                                                                                     |
| <b>UniProt ID</b>          | O15457                                                                                                                        |
| <b>Chromosome Location</b> | 1p31                                                                                                                          |
| <b>Pathway</b>             | Meiosis, organism-specific biosystem; Meiotic Recombination, organism-specific biosystem;                                     |
| <b>Function</b>            | ATP binding; DNA binding; DNA-dependent ATPase activity; NOT damaged DNA binding; mismatched DNA binding; nucleotide binding; |