

MSH3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16542c**Specification**

MSH3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P20585](#)**MSH3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4437**Other Names**

DNA mismatch repair protein Msh3, hMSH3, Divergent upstream protein, DUP, Mismatch repair protein 1, MRP1, MSH3, DUC1, DUG

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MSH3 Antibody (Center) Blocking Peptide - Protein Information**Name** MSH3**Synonyms** DUC1, DUG**Function**

Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS beta which binds to DNA mismatches thereby initiating DNA repair. When bound, the MutS beta heterodimer bends the DNA helix and shields approximately 20 base pairs. MutS beta recognizes large insertion-deletion loops (IDL) up to 13 nucleotides long. After mismatch binding, forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis.

MSH3 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MSH3 Antibody (Center) Blocking Peptide - Images**MSH3 Antibody (Center) Blocking Peptide - Background**

The protein encoded by this gene forms a heterodimer with MSH2 to form MutS beta, part of the post-replicative DNA mismatch repair system. MutS beta initiates mismatch repair by binding to a mismatch and then forming a complex with MutL alpha heterodimer. Defects in this gene are a cause of susceptibility to endometrial cancer.

MSH3 Antibody (Center) Blocking Peptide - References

Monsees, G.M., et al. Breast Cancer Res. Treat. 125(1):207-214(2011) Lee, S.Y., et al. Gastroenterology 139(5):1519-1525(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Kumarasinghe, A.P., et al. Pathology 42(5):414-420(2010)