

Product datasheet for **TA326879**

MSH6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human MSH6
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	mutS homolog 6
Database Link:	NP_000170 Entrez Gene 17688 Mouse Entrez Gene 100360342 Rat P52701



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Background:

The DNA mismatch repair system (MMR) repairs post-replication DNA, inhibits recombination between nonidentical DNA sequences, and induces both checkpoint and apoptotic responses following certain types of DNA damage. MSH2 (MutS homologue 2) forms the hMutS-a dimer with MSH6 and is an essential component of the mismatch repair process. hMutS-a is part of the BRCA1-associated surveillance complex (BASC), a complex that also contains BRCA1, MLH1, ATM, BLM, PMS2 proteins, and the Rad50-Mre11-NBS1 complex. Mutations in MSH6 and other MMR proteins have been found in a large proportion of hereditary nonpolyposis colorectal cancer (Lynch Syndrome), the most common form of inherited colorectal cancer in the Western world. Mutations in MSH6 have been shown to occur in glioblastoma in response to temozolomide therapy and to promote temozolomide resistance

Synonyms:

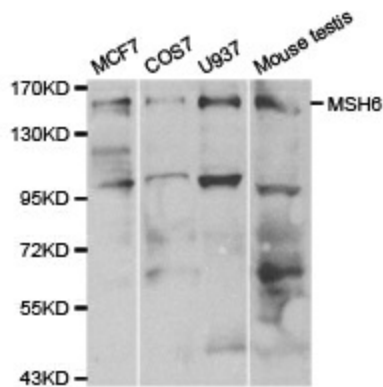
GTBP; GTMBP; HNPCC5; HSAP; p160

Protein Families:

Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Colorectal cancer, Mismatch repair, Pathways in cancer

Product images:

Western blot analysis of extracts of various cell lines, using MSH6 antibody.