

Product datasheet for **CF807929**

MSH6 Mouse Monoclonal Antibody [Clone ID: OTI5D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5D1
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-280 of human MSH6(NP_000170) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
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 Entrez Gene 2956 Human P52701



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Background:

This gene encodes a member of the DNA mismatch repair MutS family. In *E. coli*, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]

Synonyms:

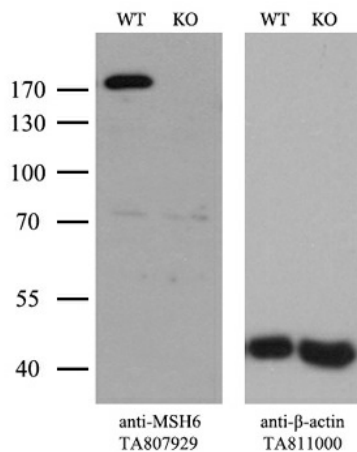
GTBP; GTMBP; HNPCC5; HSAP; MMRC3; p160

Protein Families:

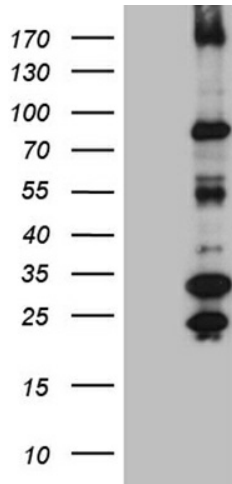
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

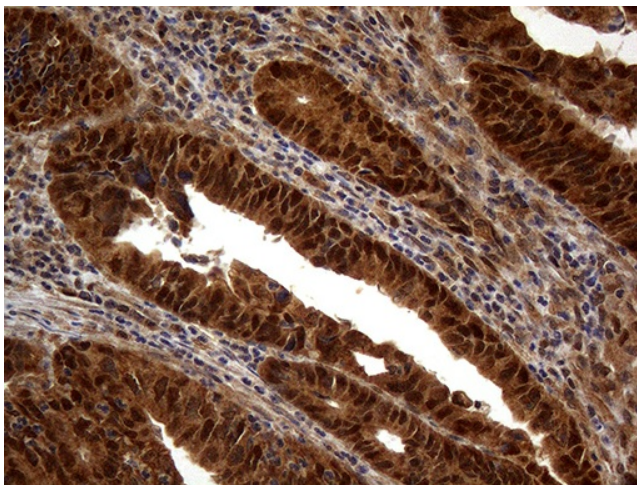
Colorectal cancer, Mismatch repair, Pathways in cancer

Product images:

Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and MSH6-Knockout hela cells (KO, Cat# [LC810099]) were separated by SDS-PAGE and immunoblotted with anti-MSH6 monoclonal antibody [TA807929]. Then the blotted membrane was stripped and reprobed with anti-β-actin ([TA811000]) as a loading control (1:500).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MSH6 (Cat# [RC202469], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MSH6 (Cat# [TA807929])(1:2000).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-MSH6 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.