

MSH6 Monoclonal Antibody | anti-MSH6 antibody

MSH6 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA314276	Recombinant Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MSH6; Monoclonal Antibody; MSH6 Rabbit mAb; GTBP; HSAP; HNPCC5; anti-MSH6 antibody

PRODUCT SPECIFICATIONS

Host	Recombinant Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S05-2B5
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration	0.3mg/ml (varies by lot)
Applicable Applications for anti-MSH6 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human MSH6
Conjugation	Unconjugated
Modification	Unmodification
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of MSH6 in paraffin-embedded Human tonsil using MSH6 Rabbit mAb at dilution 1/1



IF (Immunofluorescence)

Immunofluorescence of MSH6(green) in Hela cells using MSH6 Rabbit mAb at dilution 1/200, and DAPI(blue)



WB (Western Blot)

Western blot detection of MSH6 in K562,C6,3T3,Hela cell lysates using MSH6 Rabbit mAb(1:1000 diluted).Predicted band size:163kDa.Observed band size:163kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MSH6 antibody	Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS alpha, which binds to DNA mismatches thereby initiating DNA repair. When bound, MutS alpha bends the DNA helix and shields approximately 20 base pairs, and recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. 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. ATP binding and hydrolysis play a pivotal role in mismatch repair functions. The ATPase activity associated with MutS alpha regulates binding similar to a molecular switch: mismatched DNA provokes ADP-->ATP exchange, resulting in a discernible conformational transition that converts MutS alpha into a sliding clamp capable of hydrolysis-independent diffusion along the DNA backbone. This transition is crucial for mismatch repair. MutS alpha may also play a role in DNA homologous recombination repair. Recruited on chromatin in G1 and early S phase via its PWWP domain that specifically binds trimethylated 'Lys-36' of histone H3 (H3K36me3): early recruitment to chromatin to be replicated allowing a quick identification of mismatch repair to initiate the DNA mismatch repair reaction.
Product Categories/Family for anti-MSH6 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504191
NCBI GeneID	2956
NCBI Accession #	NP_000170.1
NCBI GenBank Nucleotide #	NM_000179.2
UniProt Accession #	P52701; O43706; O43917; Q8TCX4; Q9BTB5
Molecular Weight	1360
NCBI Official Full Name	DNA mismatch repair protein Msh6 isoform 1
NCBI Official Synonym Full Names	mutS homolog 6 (E. coli)
NCBI Official Symbol	MSH6
NCBI Official Synonym Symbols	GTBP; HSAP; p160; GTMBP; HNPCC5
NCBI Protein Information	DNA mismatch repair protein Msh6; sperm-associated protein; mutS-alpha 160 kDa subunit; G/T mismatch-binding protein
UniProt Protein Name	DNA mismatch repair protein Msh6
UniProt Gene Name	MSH6
UniProt Synonym Gene Names	GTBP; hMSH6; GTBP; GTMBP; p160
UniProt Entry Name	MSH6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/msh6-antibody-clone-s05-2b5-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/314276>