

Rabbit anti-Human, Rat MSH3 Polyclonal Antibody | anti-MSH3 antibody

MSH3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327154	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

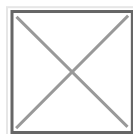
PRODUCT SYNONYMS

MSH3; Polyclonal Antibody; MSH3 Antibody; Divergent upstream protein; DNA mismatch repair protein; DNA mismatch repair protein Msh 3; DNA mismatch repair protein MSH3; DUC 1; DUC1; DUG; DUP; hMSH3; MGC163306; MGC163308; Mismatch repair protein 1; MRP 1; MRP1; MSH 3; MSH3_HUMAN; MutS homolog 3 (E. coli); MutS homolog 3; anti-MSH3 antibody

PRODUCT SPECIFICATIONS

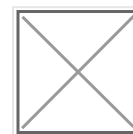
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MSH3 antibody detects endogenous levels of total MSH3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1137
Applicable Applications for anti-MSH3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MSH3
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using MSH3 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA327154 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA327154 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MSH3 antibody	Description: 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. This gene contains a polymorphic 9 bp tandem repeat sequence in the first exon. The repeat is present 6 times in the reference genome sequence and 3-7 repeats have been reported. Defects in this gene are a cause of susceptibility to endometrial cancer. 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. Subunit Structure: Heterodimer consisting of MSH2-MSH3 (MutS beta). Forms a ternary complex with MutL alpha (MLH1-PMS1). Interacts with EXO1. Similarity: Belongs to the DNA mismatch repair MutS family. MSH3 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	284813531
NCBI GeneID	4437
NCBI Accession #	NP_002430.3
NCBI GenBank Nucleotide #	NM_002439.4
UniProt Accession #	P20585; Q6PJT5; Q86UQ6; Q92867; A1L480; A1L482; A6NMM6
Molecular Weight	Observed: 127 kDa Predicted: 128 kDa
NCBI Official Full Name	DNA mismatch repair protein Msh3
NCBI Official Synonym Full Names	mutS homolog 3
NCBI Official Symbol	MSH3
NCBI Official Synonym Symbols	DUP; FAP4; MRP1
NCBI Protein Information	DNA mismatch repair protein Msh3
UniProt Protein Name	DNA mismatch repair protein Msh3
UniProt Gene Name	MSH3
UniProt Synonym Gene Names	DUC1; DUG; hMSH3; DUP; MRP1

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.