SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-MSH3 antibody

SL4919R

Product Name:	MSH3
Chinese Name:	错配修复蛋白3抗体
Alias:	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; MSH3_HUMAN; MutS homolog 3 (E. coli); MutS homolog 3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	IHC-P=1:400-800IHC-F=1:400-800（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	127kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MSH3:521-620/1137
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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:
Heterodimer consisting of MSH2-MSH3 (MutS beta). Forms a ternary complex with MutL alpha (MLH1-PMS1). Interacts with EXO1.

Post-translational modifications:
Phosphorylated upon DNA damage, probably by ATM or ATR.

DISEASE:
Defects in MSH3 are a cause of susceptibility to endometrial cancer (ENDMC) [MIM:608089].

Similarity:
Belongs to the DNA mismatch repair MutS family. MSH3 subfamily.

SWISS:
P20585

Gene ID:
4437

Database links:

Entrez Gene: 4437Human

Entrez Gene: 17686Mouse

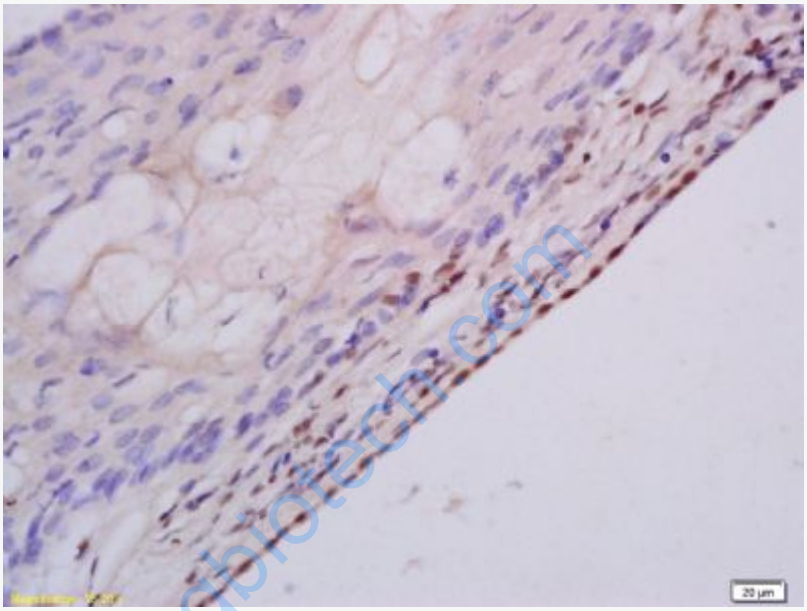
Omim: 600887Human

SwissProt: P20585Human

SwissProt: P13705Mouse

Unigene: 280987Human

Unigene: 343101Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Tissue/cell: rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-MSH3 Polyclonal Antibody, Unconjugated(SL4919R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining