

Immunotag™ MSH3 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT2897
Product Description	Immunotag™ MSH3 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MSH3
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human MSH3. AA range:51-100
Specificity	MSH3 Polyclonal Antibody detects endogenous levels of MSH3 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	MSH3
Accession No.	P20585 P13705
Alternate Names	MSH3; DUC1; DUG; DNA mismatch repair protein Msh3; hMSH3; Divergent upstream protein; DUP; Mismatch repair protein 1; MRP1

Antibody Specification

Description	mutS homolog 3(MSH3) Homo sapiens 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. [provided by RefSeq, Mar 2011],
Cell Pathway/ Category	Mismatch repair,Pathways in cancer,Colorectal cancer,
Protein Expression	Muscle,
Subcellular Localization	nuclear chromosome,nucleoplasm,membrane,MutSbeta complex,
Protein Function	disease:Defects in MSH3 are a cause of susceptibility to endometrial cancer [MIM:608089].,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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the DNA mismatch repair mutS family. MSH3 subfamily.,subunit:Heterodimer consisting of MSH2-MSH3 (MutS beta). Forms a ternary complex with MutL alpha (MLH1-PMS1). Interacts with EXO1.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.