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PMS2 (PT0045R) PT[™] Rabbit mAb

CatalogNo: YM8020 Recombinant R

Key Features

Host Species

Rabbit

MW • 96kD (Calculated) 110kD (Observed) Human
 Isotype

Reactivity

• IgG,Kappa

Applications • WB,IHC,IF,ELISA

Recommended Dilution Ratios

IHC 1:200-1000 WB 1:500-5000 IF 1:200-1000 ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0045R

Immunogen Information

Specificity Endogenous

Target Information

Gene name	PMS2 PMSL2		
Protein Name	Postmeiotic Segregation Increas	ed 2(PMS2)	
	Organism	Gene ID	UniProt ID
	Human	<u>5395;</u>	<u>P54278;</u>
Cellular Localization	Nuclear		
Tissue specificity	Amygdala,Brain,Endometrial tur	nor,Epithelium,Human en	dometrium
Function	Disease:Defects in PMS2 are a c [MIM:276300]; also known as Tu (BTPS1). MMRCS is an autosoma the brain associated with multip cysts, hyperpigmented and cafe hereditary non-polyposis colore more than one gene locus can b HNPCC phenotype (also called L HNPCC have mutations in either inherited disease associated wit characterized by a familial pred extra-colonic cancers of the gas HNPCC is reported to be the mo Western world, and accounts fo within benign neoplastic polyps two subgroups. Type I: heredita and carcinoma observed in the cancers in certain tissues such a and larynx in addition to the col criteria: 3 or more relatives affe other two; 2 or more generation years of age; exclusion of hereo "incomplete HNPCC" can be use Amsterdam criteria, but in whor suspected.,Function:Component Heterodimerizes with MLH1 to ff (MSH2-MSH6) or MutS beta (MS recruited to the heteroduplex. A presence of RFC and PCNA is su introduces single-strand breaks the exonuclease EXO1 to degra would prevent cleavage and the going to be corrected. MulL alph subunits of DNA polymerase III, polymerase III to the site of the which induces cell cycle arrest a damages.,similarity:Belongs to f family.,subunit:Heterodimer of I MutS alpha (MSH2-MSH6) or Mut genome surveillance complex (I BLM, PMS2 and the RAD50-MRE dynamic process changing throu	ause of mismatch repair of ircot syndrome and brain al dominant disorder chara- le colorectal adenomas. S au lait spots.,Disease:De- ctal cancer type 4 (HNPCC) is involved alone or in con- ynch syndrome). Most fam MLH1 or MSH2 genes. HM in marked increase in cano- isposition to early onset co- trointestinal, urological an st common form of inherit r 15% of all colon cancers, termed adenomas. Clinica- ry predisposition to colore proximal colon. Type II: pa- as the uterus, ovary, breas- on. Diagnosis of classical I cted by colorectal cancer, affected; 1 or more color- litary polyposis syndromes ed to describe families who n a genetic basis for colone to f the post-replicative DN orm MutL alpha. DNA repa H2-MSH6) binding to a dsI ssembly of the MutL-MutS fficient to activate endonu- near the mismatch and th de the strand containing ti- and can lead to apoptosis the DNA mismatch repair PMS2 and MLH1 (MutL alpl tS beta (MSH2-MSH3). Par BASC), which contains BRC 11-NBS1 protein complex. ughout the cell cycle and y	cancer syndrome (MMRCS) tumor-polyposis syndrome 1 acterized by malignant tumors of skin features include sebaceous fects in PMS2 are the cause of (4) [MIM:600259]. Mutations in nbination in the production of the nilies with clinically recognized JPCC is an autosomal, dominantly cer susceptibility. It is olorectal carcinoma (CRC) and nd female reproductive tracts. ted colorectal cancer in the . Cancers in HNPCC originate ally, HNPCC is often divided into octal cancer, a young age of onset, atients have an increased risk for st, stomach, small intestine, skin, HNPCC is based on the Amsterdam one a first degree relative of the ectal cancers presenting before 50 s. The term "suspected HNPCC" or o do not or only partially fulfill the n cancer is strongly VA mismatch repair system (MMR). ir is initiated by MutS alpha DNA mismatch, then MutL alpha is 5-heteroduplex ternary complex in uclease activity of PMS2. It nus generates new entry points for he mismatch. DNA methylation e newly mutated DNA strand is physically with the clamp loader ay a role to recruit the DNA VA damage signaling, a process in case of major DNA mutL/hexB ha). Forms a ternary complex with t of the BRCA1-associated CA1, MSH2, MSH6, MLH1, ATM, This association could be a within subnuclear domains.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PMS2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: A549 Predicted band size: 96kDa Observed band size: 110kDa



Human rectal carcinoma tissue was stained with Anti-PMS2 rabbit Antibody



Western Blot analysis of various cells using PMS2 Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Western blot analysis of lysates from HeLa cells, using PMS2 Antibody. The lane on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code to access additional product information: PMS2 (PT0045R) PT™ Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents