Rabbit anti-Human PMS2 (Postmeiotic Segregation Increased 2) Monoclonal Antibody | anti-PMS2 antibody

PMS2 (Postmeiotic Segregation Increased 2) Recombinant Rabbit Monoclonal Antibody [Clone PMS2/4373R]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215841	**Rabbit**	**Human**	**Immunohistochemistry, Immunofluorescence, Western Blot, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

PMS2 (Postmeiotic Segregation Increased 2); Monoclonal Antibody; PMS2 (Postmeiotic Segregation Increased 2) Recombinant Rabbit Monoclonal Antibody [Clone PMS2/4373R]; DNA mismatch repair protein PMS2; hereditary non-polyposis colorectal cancer type 4 (HNPCC4); Mismatch repair gene PMSL2; PMS1 protein homolog 2; postmeiotic segregation increased 2 (S. cerevisiae); PMS2CL; anti-PMS2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit/IgG
Clone Number	PMS2/4373R
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0. 05% BSA & 0. 05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-PMS2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	A synthetic peptide corresponding to residues within aa1-100 of human PMS2 (exact sequence is proprietary)
Cellular Localization	Nuclear
Positive Control	HeLa or Jurkat cells. Human colon carcinoma.
Hu-chromosome Location	7p22.2
Unigene	632637
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human colon carcinoma stained with PMS2 Recombinant Rabbit Monoclonal Antibody (PMS2/4373R).

ADDITIONAL INFORMATION

Related Product Information for anti-PMS2 antibody	PMS2 is involved in DNA mismatch repair. It forms a heterodimer with MLH1 and this complex interacts with other complexes bound to mismatched bases. Defects in PMS2 are the cause of hereditary non-polyposis colorectal cancer type 4 (HNPCC4). Mutations in more than one gene locus can be involved alone or in combination in the production of the HNPCC phenotype (also called Lynch syndrome). Most families with clinically recognized HNPCC have mutations in either MLH1 or MSH2 genes. HNPCC is an autosomal, dominantly inherited disease associated with marked increase in cancer susceptibility. It is characterized by a familial predisposition to early onset colorectal carcinoma (CRC) and extra-colonic cancers of the gastrointestinal, urological and female reproductive tracts. HNPCC is reported to be the most common form of inherited colorectal cancer in the Western world, and accounts for 15% of all colon cancers. Defects in PMS2 are a cause of mismatch repair cancer syndrome (MMRCS); also known as Turcot syndrome or brain tumor-polyposis syndrome 1 (BTPS1). MMRCS is an autosomal dominant disorder characterized by malignant tumors of the brain associated with multiple colorectal adenomas. Skin features include sebaceous cysts, hyperpigmented and cafe au lait spots.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505913
NCBI GeneID	5395
NCBI Accession #	NP_000526.1
NCBI GenBank Nucleotide #	NM_000535.5
UniProt Accession #	P54278; Q52LH6; Q5FBW9; Q5FBX1; Q5FBX2; Q75MR2; B2R610
Molecular Weight	95,797 Da
NCBI Official Full Name	mismatch repair endonuclease PMS2 isoform a
NCBI Official Synonym Full Names	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)
NCBI Official Symbol	PMS2
NCBI Official Synonym Symbols	PMSL2; HNPCC4; PMS2CL
NCBI Protein Information	mismatch repair endonuclease PMS2; H_DJ0042M02.9; PMS1 protein homolog 2; DNA mismatch repair protein PMS2
UniProt Protein Name	Mismatch repair endonuclease PMS2
UniProt Gene Name	**PMS2**
UniProt Synonym Gene Names	PMSL2
UniProt Entry Name	PMS2_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/pms2-postmeiotic-segregation-increased-2-antibody-clone-pms2-4373r-immunohistochemistry-immunofluorescence-western-blot-flow-cytometry-elisa/215841