Product Name: Postmeiotic Segregation Increased 2(PMS2) Mouse Monoclonal Antibody
Catalog #: AMM22040
For research use only.

Summary

Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1,Kappa
Clonality	Monoclonal
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Purification	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.

Application

Dilution Ratio	IHC 1:50-100;ELISA 1:500-5000
Molecular Weight	Calculated MW:96kDa,Observed MW:110kDa

Antigen Information

Gene Name	PMS2 PMSL2
Alternative Names	Mismatch repair endonuclease PMS2;DNA mismatch repair protein PMS2;PMS1 protein homolog 2;
Gene ID	Human:5395
SwissProt ID	Human:P54278
Immunogen	Synthesized peptide derived from human Postmeiotic Segregation Increased 2(PMS2) AA range: 600-700

Background

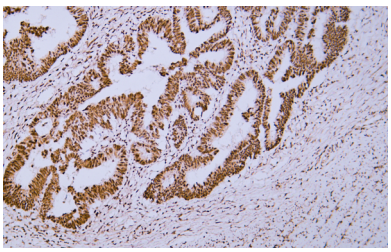
The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches

and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome

Research Area

Pathology

Image Data



Human colon carcinoma tissue was stained with anti-PMS2 Antibody