

PMS2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PMS2.

Catalog # AT3358a

Product Information

Application	E
Primary Accession	P54278
Other Accession	NM_000535
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4G4
Calculated MW	95797

Additional Information

Gene ID	5395
Other Names	Mismatch repair endonuclease PMS2, 31--, DNA mismatch repair protein PMS2, PMS1 protein homolog 2, PMS2, PMSL2
Target/Specificity	PMS2 (NP_000526, 763 a.a. ~ 862 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PMS2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

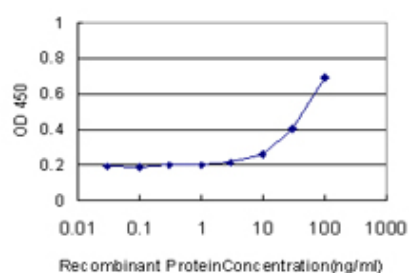
This gene is one of the PMS2 gene family members found in clusters on chromosome 7. The product of this gene is involved in DNA mismatch repair. It forms a heterodimer with MLH1 and this complex interacts with other complexes bound to mismatched bases. Mutations in this gene are associated with hereditary nonpolyposis colorectal cancer, Turcot syndrome, and are a cause of supratentorial primitive neuroectodermal tumors. Alternatively spliced transcript variants have been observed for this gene.

References

Comprehensive screen of genetic variation in DNA repair pathway genes and postmenopausal breast cancer

risk. Monsees GM, et al. Breast Cancer Res Treat, 2010 May 23. PMID 20496165. A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000. Genetic variation in 3-hydroxy-3-methylglutaryl CoA reductase modifies the chemopreventive activity of statins for colorectal cancer. Lipkin SM, et al. Cancer Prev Res (Phila), 2010 May. PMID 20403997. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Functional PMS2 hybrid alleles containing a pseudogene-specific missense variant trace back to a single ancient intrachromosomal recombination event. Ganster C, et al. Hum Mutat, 2010 May. PMID 20186689.

Images



Detection limit for recombinant GST tagged PMS2 is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.