

**PMS2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant PMS2.****Catalog # AT3358a****Specification**

---

**PMS2 Antibody (monoclonal) (M01) - Product Information**

Application	E
Primary Accession	<a href="#">P54278</a>
Other Accession	<a href="#">NM_000535</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	95797

**PMS2 Antibody (monoclonal) (M01) - 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.

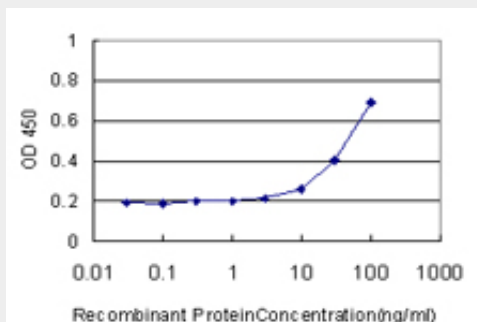
**PMS2 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **PMS2 Antibody (monoclonal) (M01) - Images**



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

### **PMS2 Antibody (monoclonal) (M01) - 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.

### **PMS2 Antibody (monoclonal) (M01) - 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.