

Product datasheet for **TA355318**

PMS2 Mouse Monoclonal Antibody [Clone ID: M0R4G]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M0R4G
Applications:	IHC
Recommended Dilution:	1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Prokaryotic recombinant protein corresponding to 160 amino acids of the C-terminal region of the human PMS2 molecule
Specificity:	Human PMS2
Formulation:	Liquid tissue culture supernatant containing sodium azide as a preservative
Conjugation:	Unconjugated
Storage:	Store at 2-8°C
Stability:	12 months
Gene Name:	PMS1 homolog 2, mismatch repair system component
Database Link:	Entrez Gene 5395 Human P54278



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Background:

Postmeiotic segregation increased 2 (PMS2), also known as PMS1 protein homologue 2, is a DNA mismatch repair (MMR) protein. The PMS2 gene family members are found in clusters on chromosome 7. PMS2 is a 96 kDa mismatch repair protein closely related to MLH1, MLH3 and PMS1, which are homologs of the bacterial mutL gene. The PMS2 protein forms a heterodimer with the MLH1 protein which is then activated in the presence of ATP; this complex coordinates the binding of other proteins that repair DNA errors arising during cell preparation for cell division.

The loss of PMS2 expression in tumors can be helpful in identifying hMLH1 mutation carriers and identifies their suitability for mutation analysis.

PMS2 gene defects account for a small but significant proportion of colorectal cancers and for a substantial proportion of tumors with microsatellite instability.

Synonyms:

HNPCC4; H_DJ0042M02.9; PMS2CL; PMSL2

Product images: