

Product datasheet for **TA319565**

PMS2 Mouse Monoclonal Antibody [Clone ID: 349.29.5.2]

Product data:

| | |
|------------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 349.29.5.2 |
| Applications: | WB |
| Recommended Dilution: | ELISA: 1:5,000 - 1:20,000, WB: 1:500 - 1:2,000 |
| Reactivity: | Human, Mouse, Hamster, Rat, Chimpanzee |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Immunogen: | This protein A purified monoclonal antibody was produced by repeated immunizations with recombinant human PMS2 corresponding to the first 133 amino acid residues of the protein. The clone was produced using conventional hybridoma technology. |
| Formulation: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Concentration: | lot specific |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | PMS1 homolog 2, mismatch repair system component |
| Database Link: | NP_000526 Entrez Gene 18861 Mouse Entrez Gene 288479 Rat Entrez Gene 5395 Human P54278 |
| Synonyms: | HNPCC4; PMS2CL; PMSL2 |



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Note: PMS2 is a highly conserved nuclear protein involved in mismatch repair during DNA replication and has been identified to be composed as a heterodimer of PMS2 and MLH1. PMS is part of the BRCA1-associated genome surveillance complex (BASC), which contains BRCA1, MSH2, MSH6, MLH1, ATM, BLM, PMS2 and the RAD50-MRE11-NBS1 protein complex. This association could be a dynamic process changing throughout the cell cycle and within subnuclear domains. Defects in PMS2 are the cause of hereditary non-polyposis colorectal cancer type 4 (HNPCC4), Turcot syndrome (an autosomal dominant disorder characterized by malignant tumors of the brain associated with multiple colorectal adenomas) and supratentorial primitive neuroectodermal tumors with cafe-au-lait spots (SNTCL). The human PMS2 gene encodes an 862 aa, 96 kDa polypeptide.

Protein Families: Druggable Genome

Protein Pathways: Mismatch repair

Product images:



WB analysis using Monoclonal Anti-PMS2 antibody to detect human PMS2 protein present in H157 cell lysates. The blot was incubated with a 1:1,000 dilution of the antibody at RT followed by washing. A 1:20,000 dilution of HRP conjugated Gt-anti-Mouse IgG preceded color development using Pierce Chemical's SuperSignal™ substrate. Comparison to a molecular weight marker (not shown) indicates a single band of ~96.0 kDa corresponding to the expected molecular weight for human PMS2 protein.