

For Research Use Only

# PMS2 Monoclonal antibody

Catalog Number: 66075-1-Ig **9 Publications**



## Basic Information

**Catalog Number:**

66075-1-Ig

**Size:**

2700 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG12661

**GenBank Accession Number:**

BC093921

**GeneID (NCBI):**

5395

**UNIPROT ID:**

P54278

**Full Name:**

PMS2 postmeiotic segregation increased 2 (*S. cerevisiae*)

**Calculated MW:**

862 aa, 96 kDa

**Observed MW:**

100 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1G4E6

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, rat, mouse

**Cited Species:**

human, mouse, canine

**Positive Controls:**

WB: A431 cells, HeLa cells

## Background Information

PMS2, also named as PMSL2, belongs to the DNA mismatch repair mutL/hexB family. It is a component of the post-replicative DNA mismatch repair system (MMR). It heterodimerizes with MLH1 to form MutL alpha. MutL alpha (MLH1-PMS2) interacts physically with the clamp loader subunits of DNA polymerase III, suggesting that it may play a role to recruit the DNA polymerase III to the site of the MMR. It also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages. (PMID: 16873062, PMID: 18206974) Defects in PMS2 are the cause of hereditary non-polyposis colorectal cancer type 4 (HNPCC4). Defects in PMS2 are a cause of mismatch repair cancer syndrome (MMRCS).

## Notable Publications

Author	Pubmed ID	Journal	Application
Sakuya Inanaga	34538134	Vet Pathol	IHC
Takashi Minamisaka	35614379	Neuropathology	IHC
Xuting Ran	35664732	Front Oncol	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

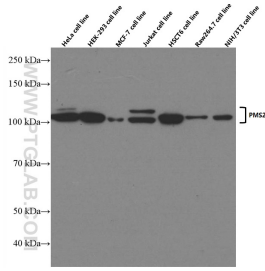
T: 4006900926

E: Proteintech-CN@ptglab.com

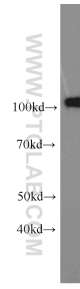
W: ptgcn.com

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## Selected Validation Data



Vairous cells were subjected to SDS PAGE followed by western blot with 66075-1-Ig (PMS2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



A431 cells were subjected to SDS PAGE followed by western blot with 66075-1-Ig (PMS2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.