

For Research Use Only

PMS2 Monoclonal antibody

Catalog Number: 66075-1-Ig **13 Publications**



Basic Information

Catalog Number:

66075-1-Ig

Concentration:

2700 ug/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

Species Specificity:

human, mouse, rat

Cited Species:

human

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
Sachita Ganesa	35388070	Sci Rep	WB
Xin Zhang	38924997	Drug Resist Updat	WB
Zhenwei Yang	38860604	Mol Carcinog	WB

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:

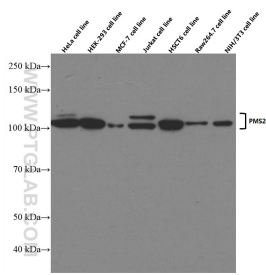
T: 4006900926

E: Proteintech-CN@ptglab.com

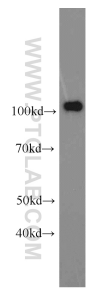
W: ptgcn.com

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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.