

For Research Use Only

# PMS2 Monoclonal antibody, PBS Only

Catalog Number: 68905-5-PBS



## Basic Information

### Catalog Number:

68905-5-PBS

### Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

### Source:

Mouse

### Isotype:

IgG2a

### Immunogen Catalog Number:

AG34237

### 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:

117 kDa, 100 kDa

### Purification Method:

Protein A purification

### CloneNo.:

1D1A3

## Applications

### Tested Applications:

WB, IHC, Indirect ELISA

### Species Specificity:

human, rabbit

## 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).

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS Only

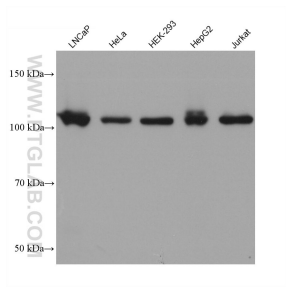
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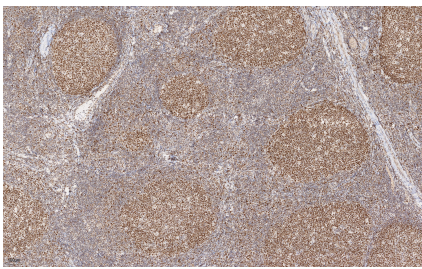
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68905-5-Ig (PMS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68905-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 68905-5-Ig (PMS2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68905-5-PBS in a different storage buffer formulation.