

For Research Use Only

# PMS2 Monoclonal antibody, PBS Only

Catalog Number: 66075-1-PBS



## Basic Information

<b>Catalog Number:</b> 66075-1-PBS	<b>GenBank Accession Number:</b> BC093921	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5395	<b>CloneNo.:</b> 1G4E6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P54278	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG12661	<b>Calculated MW:</b> 862 aa, 96 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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

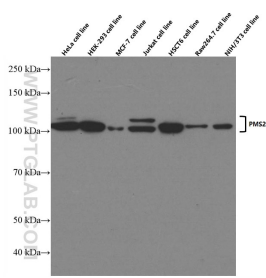
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

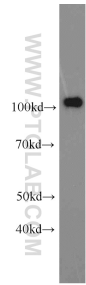
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## Selected Validation Data



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. This data was developed using the same antibody clone with 66075-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66075-1-PBS in a different storage buffer formulation.