

For Research Use Only

# PMS2 Recombinant antibody, PBS Only

Catalog Number: 84894-5-PBS



## Basic Information

<b>Catalog Number:</b> 84894-5-PBS	<b>GenBank Accession Number:</b> BC093921	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 5395	<b>CloneNo.:</b> 242455F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P54278	
<b>Isotype:</b> IgG	<b>Full Name:</b> PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG33508	<b>Calculated MW:</b> 862 aa, 96 kDa	
	<b>Observed MW:</b> 117 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human

## 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

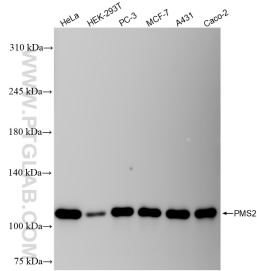
T: 4006900926

E: Proteintech-CN@ptglab.com

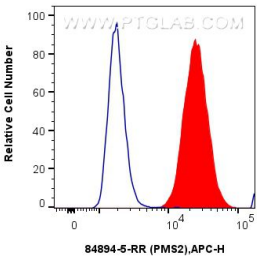
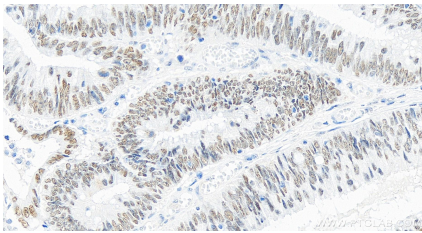
W: ptgcn.com

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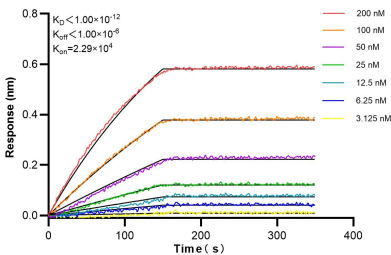
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84894-5-RR (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 84894-5-PBS in a different storage buffer formulation.



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug PMS2 Recombinant antibody (84894-5-RR, Clone:24245F8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84894-5-PBS in a different storage buffer



Biolayer interferometry (BLI) kinetic assays of 84894-5-RR against Human PMS2 were performed. The affinity constant is below 1 pM.