

For Research Use Only

# PMS1 Polyclonal antibody

Catalog Number: 10859-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 10859-1-AP	<b>GenBank Accession Number:</b> BC008410	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5378	
<b>Source:</b> Rabbit	<b>Full Name:</b> PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 106 kDa	
<b>Immunogen Catalog Number:</b> AG1158		

## Applications

**Tested Applications:**  
ELISA

**Cited Applications:**  
IHC, WB

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

**Cited Species:**  
human

## Background Information

The multiple eukaryotic homologs of the bacterial MutL mismatch repair protein are implicated along with MutS homologs in maintaining genomic integrity during DNA replication and recombination [PMID:16612326]. DNA mismatch repair (MMR) corrects replication errors that would otherwise lead to mutations and, potentially, various forms of cancer. Among several proteins required for eukaryotic MMR, MutLo is a heterodimer comprised of Mlh1 and PMS1 [PMID:19115045]. PMS1 contains an N-terminal domain (NTD) and C-terminal domain (CTD), which separated by a flexible linker. Dimerization occurs between the CTDs and the CTD of PMS1 houses a strand-specific endonuclease that is necessary for MMR [PMID:17951253].

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyu Cao	31201471	J Mol Med (Berl)	WB, IHC
Cédric Van Marcke	32295625	Breast Cancer Res	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

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data