

For Research Use Only

PMS2 Polyclonal antibody

Catalog Number: 18164-1-AP



Basic Information

Catalog Number: 18164-1-AP	GenBank Accession Number: BC093921	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 5395	Recommended Dilutions: WB 1:2000-1:10000
Source: Rabbit	UNIPROT ID: P54278	
Isotype: IgG	Full Name: PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	
Immunogen Catalog Number: AG12651	Calculated MW: 862 aa, 96 kDa	
	Observed MW: 117 kDa, 100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A431 cells, PC-3 cells, Jurkat cells, MCF-7 cells, Raji cells
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). This antibody is specific to PMS2. The calculated molecular weight of PMS2 is 96 kDa, but the modified PMS2 is about 117 kDa.(PMID: 11358834)

Storage

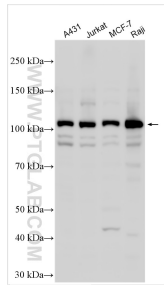
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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



Various lysates were subjected to SDS PAGE followed by western blot with 18164-1-AP (PMS2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.