

For Research Use Only

PMS2 Monoclonal antibody

Catalog Number: 66075-1-Ig **9 Publications**



Basic Information

Catalog Number: 66075-1-Ig	GenBank Accession Number: BC093921	Purification Method: Protein A purification
Size: 150ul , Concentration: 2700 µg/ml by Nanodrop and 1580 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5395	CloneNo.: 1G4E6
Source: Mouse	UNIPROT ID: P54278	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG2a	Full Name: PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	
Immunogen Catalog Number: AG12661	Calculated MW: 862 aa, 96 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A431 cells, HeLa cells
Cited Applications: WB, IHC	
Species Specificity: human, rat, mouse	
Cited Species: human, mouse, canine	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Sakuya Inanaga	34538134	Vet Pathol	IHC
Takashi Minamisaka	35614379	Neuropathology	IHC
Xuting Ran	35664732	Front Oncol	IHC

Storage

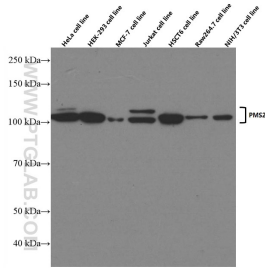
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

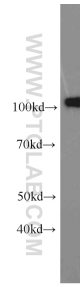
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.



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.