

For Research Use Only

PMS1 Monoclonal antibody, PBS Only



Catalog Number: 68413-1-PBS

Basic Information

Catalog Number: 68413-1-PBS	GenBank Accession Number: BC096331	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 5378	CloneNo.: 1A6G3
Source: Mouse	UNIPROT ID: P54277	
Isotype: IgG2a	Full Name: PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	
Immunogen Catalog Number: AG28127	Observed MW: 106 kDa	

Applications

Tested Applications:
WB,IF,ELISA

Species Specificity:
Human

Background Information

PMS1 Homolog 1 is a member of the DNA mismatch repair enzymes (MMREs) which is to eliminate the mismatch of insertions and deletions as a consequence of DNA polymerase errors at DNA synthesis in eukaryotes. PMS1 and MLH1 could form a heterodimer MutL β that belongs to MMREs (PMID:25619773). In the MMR system, the MutS complex recognizes the DNA mispairs firstly, and then the Mlh1-Pms1 and other associated proteins such as PCNA, RFC, Exo1 were recruited, inducing Exonuclease 1 (Exo1)-dependent and -independent MMR pathways (PMID:24981171). Mutations in this gene cause hereditary nonpolyposis colorectal cancer (HNPCC), which is also known as Lynch syndrome. It was reported that PMS1 is a widely expressed protein and located in the nucleus. Alternative splicing allows for 4 isoforms of PMS1 protein.

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:

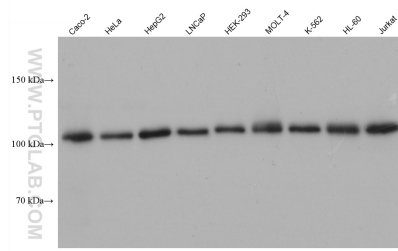
T: 4006900926

E: Proteintech-CN@ptglab.com

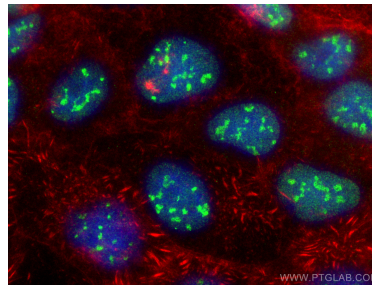
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68413-1-Ig (PMS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68413-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed Caco-2 cells using PMS1 antibody (68413-1-Ig, Clone: 1A6G3) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68413-1-PBS in a different storage buffer formulation.