

For Research Use Only

PMS1 Polyclonal antibody

Catalog Number: 28186-1-AP



Basic Information

Catalog Number: 28186-1-AP	GenBank Accession Number: BC096331	Purification Method: Antigen affinity purification
Size: 600 µg/ml	GeneID (NCBI): 5378	Recommended Dilutions: WB 1:1000-1:6000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P54277	
Isotype: IgG	Full Name: PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	
Immunogen Catalog Number: AG28132	Observed MW: 106 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls:
Species Specificity: Human	WB: Jurkat cells, HeLa cells, HepG2 cells, MOLT-4 cells, K-562 cells IF: Caco-2 cells,

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 -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

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

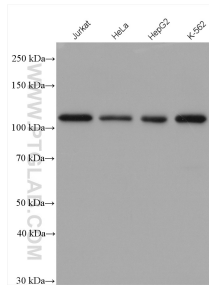
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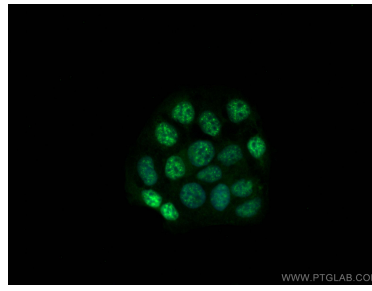
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28186-1-AP (PMS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using PMS1 antibody (28186-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).