For Research Use Only

# PMS1 Recombinant antibody

Catalog Number:83456-6-RR

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## Basic Information

Catalog Number:
83456-6-RR

Size:
1000 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG28132

GenBank Accession Number:
BC096331

GeneID (NCBI):
5378

UNIPROT ID:
P54277

Full Name:
PMS1 postmeiotic segregation increased 1 (S. cerevisiae)

Observed MW:
106 kDa

Purification Method:
Protein A purfication

CloneNo.:
240408D9

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500
IF/ICC 1:500-1:2000

## Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:
human

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : HeLa cells, HepG2 cells, HEK-293T cells, K-562 cells, Jurkat cells, MOLT-4 cells, HL-60 cells

IHC : human ovary cancer tissue,

IF/ICC : HeLa cells, 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 MutLβ 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, ExoI 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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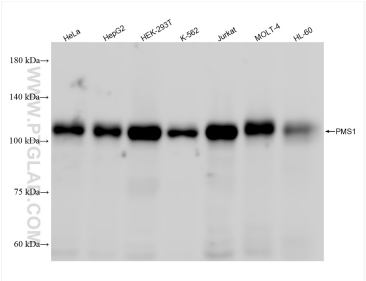
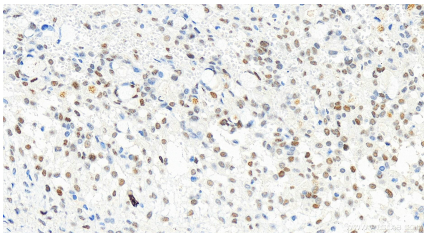
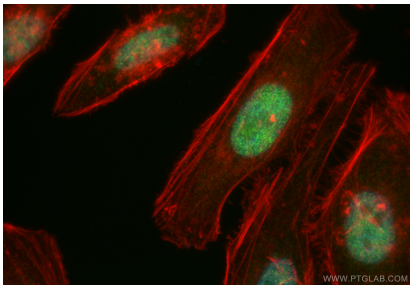
## Selected Validation Data



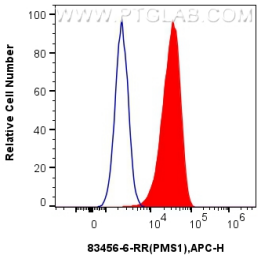

Various lysates were subjected to SDS PAGE followed by western blot with 83456-6-RR (PMS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



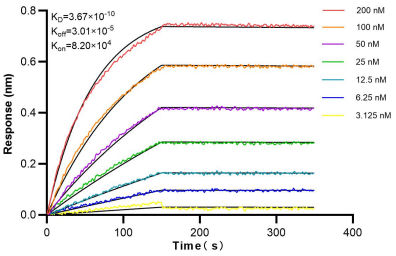
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83456-6-RR (PMS1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PMS1 antibody (83456-6-RR, Clone: 240408D9 ) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).




1x10^6 HeLa cells were intracellularly stained with 0.25 ug PMS1 Recombinant antibody (83456-6-RR, Clone:240408D9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).




Biolayer interferometry (BLI) kinetic assays of 83456-6-RR against Human PMS1 were performed. The affinity constant is 0.367 nM.