

# [KO Validated] PMS2 Rabbit pAb

Catalog No.: A13680 **KO** Validated

## Basic Information

### Observed MW

110kDa

### Calculated MW

96kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC, IP

### Cross-Reactivity

Human, Mouse

## Background

The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

### Gene ID

5395

### Swiss Prot

P54278

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 390-670 of human PMS2 (NP\_000526.2).

### Synonyms

MLH4; PMS-2; PMSL2; HNPCC4; LYNCH4; MMRC54; PMS2CL; S2

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

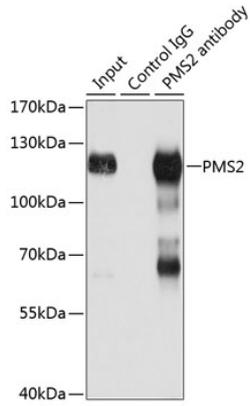
Affinity purification

### Storage

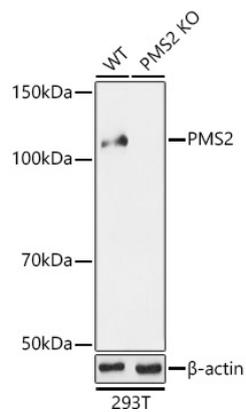
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

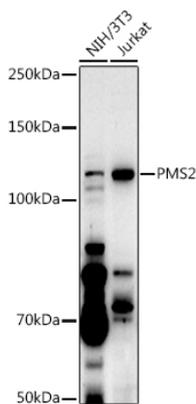
## Validation Data



Immunoprecipitation analysis of 150 µg extracts of Jurkat cells using 3 µg PMS2 antibody (A13680). Western blot was performed from the immunoprecipitate using PMS2 antibody (A13680) at a dilution of 1:500.



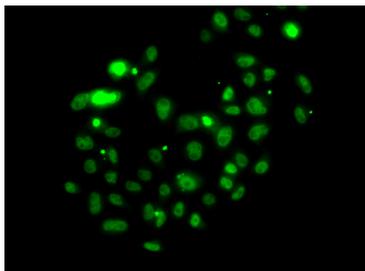
Western blot analysis of lysates from wild type (WT) and PMS2 knockout (KO) HeLa (KO) cells, using [KO Validated] PMS2 Rabbit pAb (A13680) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Western blot analysis of various lysates using [KO Validated] PMS2 Rabbit pAb (A13680) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.

## Validation Data

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Immunofluorescence analysis of U2OS cells using [KO Validated] PMS2 Rabbit pAb (A13680). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution.