

## Rabbit anti-Human PMS2 Polyclonal Antibody | anti-PMS2 antibody

PMS2 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                           |
|-----------|--------|------------|--------------------------------------------------------|
| AAA295633 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, Western Blot |

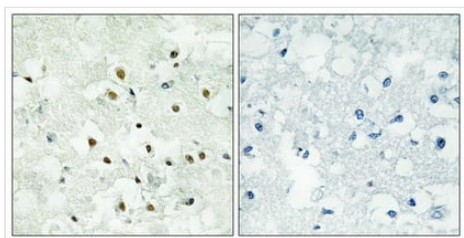
### PRODUCT SYNONYMS

PMS2; Polyclonal Antibody; PMS2 Polyclonal Antibody; PMSL2; Mismatch repair endonuclease PMS2; DNA mismatch repair protein PMS2; PMS1 protein homolog 2; anti-PMS2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-PMS2 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

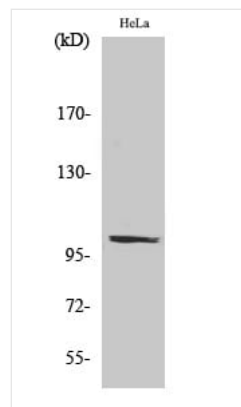
### IMAGES



#### IHC (Immunohistochemistry)

Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

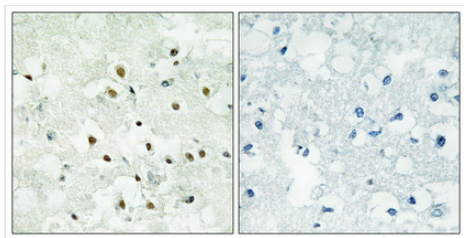
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.



#### WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

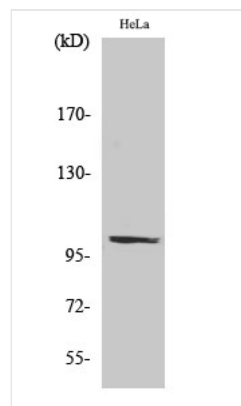
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.



#### IHC (Immunohistochemistry)

Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.



#### WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

## ADDITIONAL INFORMATION

### Related Product Information for anti-PMS2 antibody

Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MLH1 to form MutL alpha. DNA repair is initiated by MutS alpha (MSH2-MSH6) or MutS beta (MSH2- MSH3) binding to a dsDNA mismatch, then MutL alpha is recruited to the heteroduplex. Assembly of the MutL-MutS-heteroduplex ternary complex in presence of RFC and PCNA is sufficient to activate endonuclease activity of PMS2. It introduces single-strand breaks near the mismatch and thus generates new entry points for the exonuclease EXO1 to degrade the strand containing the mismatch. DNA methylation would prevent cleavage and therefore assure that only the newly mutated DNA strand is going to be corrected. 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. Also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">4505913</a>                                                                                                                                                      |
| NCBI GeneID                      | <a href="#">5395</a>                                                                                                                                                         |
| NCBI Accession #                 | <a href="#">NP_000526.1</a>                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000535.5</a>                                                                                                                                                  |
| UniProt Accession #              | <a href="#">P54278</a> ; <a href="#">Q52LH6</a> ; <a href="#">Q5FBW9</a> ; <a href="#">Q5FBX1</a> ; <a href="#">Q5FBX2</a> ; <a href="#">Q75MR2</a> ; <a href="#">B2R610</a> |
| Molecular Weight                 | 95,797 Da                                                                                                                                                                    |
| NCBI Official Full Name          | mismatch repair endonuclease PMS2 isoform a                                                                                                                                  |
| NCBI Official Synonym Full Names | PMS2 postmeiotic segregation increased 2 (S. cerevisiae)                                                                                                                     |
| NCBI Official Symbol             | PMS2                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | PMSL2; HNPCC4; PMS2CL                                                                                                                                                        |
| NCBI Protein Information         | mismatch repair endonuclease PMS2; H_DJ0042M02.9; PMS1 protein homolog 2; DNA mismatch repair protein PMS2                                                                   |
| UniProt Protein Name             | Mismatch repair endonuclease PMS2                                                                                                                                            |
| UniProt Gene Name                | <b>PMS2</b>                                                                                                                                                                  |
| UniProt Synonym Gene Names       | PMSL2                                                                                                                                                                        |
| UniProt Entry Name               | PMS2_HUMAN                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pms2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/295633>