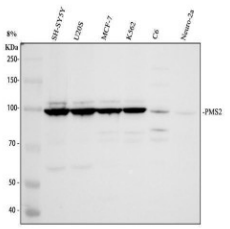
PMS2 Antibody / PMS1 homolog 2 (RQ4366)

Catalog No.	Formulation	Size
RQ4366	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P54278
Localization	Nucleus
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This PMS2 antibody is available for research use only.



PMS2 Antibody Human, Rat and Mouse WB. Western blot testing of human SH-SY5Y (lane 1), U2OS (lane 2), MCF-7 (lane 3), K562 (lane 4), rat C6 (lane 5), and mouse Neuro-2a (lane 6) cell lysates using PMS2 antibody detected a prominent band at approximately 100 kDa, consistent with the expected molecular weight of PMS2 (~96 kDa). This PMS2 Antibody is suitable for studies of DNA mismatch repair, genomic stability, and hereditary cancer research.

Description

Mismatch repair endonuclease PMS2 is an enzyme that in humans is encoded by the PMS2 gene. 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.

For a broader overview of PMS2 biology, DNA mismatch repair, and genomic stability, including HuProt protein microarray specificity validation of clone PMS2/4373R, see our PMS2 Antibody / DNA Mismatch Repair Protein Antibody page.

Application Notes

Optimal dilution of the PMS2 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids E656-L767 was used as the immunogen for the PMS2 antibody.

Storage

After reconstitution, the PMS2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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