

Datasheet for ABIN6145828
anti-PMS2 antibody (AA 390-670)



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3 Images

Overview

Quantity:	100 µL
Target:	PMS2
Binding Specificity:	AA 390-670
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PMS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 390-670 of human PMS2 (NP_000526.2).
Sequence:	ADLEKPMVEK QDQSPSLRTG EEKDVVISR LREAFSLRHT TENKPHSPKT PEPRRSPLGQ KRGMLSSSTS GAISDKGVLR PQKEAVSSSH GPSDPTDRAE VEKDSGHGST SVDSEGFSP DTGSHCSSEY AASSPGDRGS QEHVDSQEKA PKTDDSFSDV DCHSNQEDTG CKFRVLPQPT NLATPNTKRF KKEEILSSSD ICQKLVNTQD MSASQVDVAV KINKKVPLD FSMSSLAKRI KQLHHEAQQS EGEQNYRKFR AKICPGENQA AEDELKKEIS K
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

Target Details

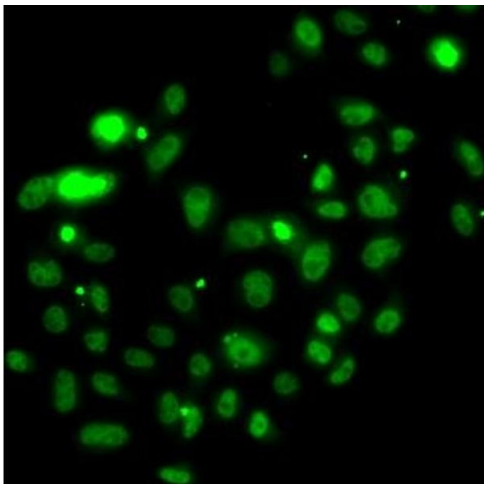
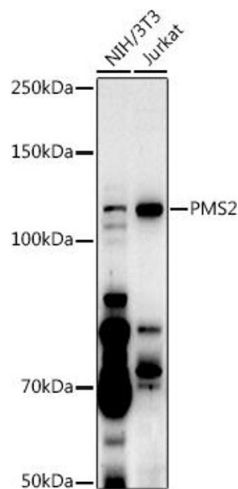
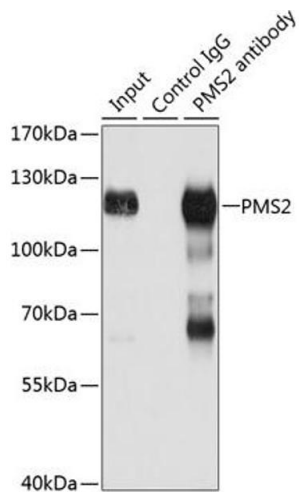
Target:	PMS2
Alternative Name:	PMS2 (PMS2 Products)
Background:	<p>The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein 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.,PMS2,HNPCC4,MLH4,PMS2CL,PMSL2,PMS2</p>
Molecular Weight:	20 kDa/51 kDa/62 kDa/95 kDa
Gene ID:	5395
UniProt:	P54278
Pathways:	DNA Damage Repair , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:20 - 1:50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Immunoprecipitation

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

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PMS2 antibody at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) 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.

Immunofluorescence

Image 3. Immunofluorescence analysis of U2OS cells using PMS2 antibody .