

Datasheet for ABIN7193481
anti-PMS2 antibody (AA 748-851)

7 Images

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Overview

Quantity:	0.1 mg
Target:	PMS2
Binding Specificity:	AA 748-851
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human PMS2 (AA: 748-851) expressed in E. coli.
Clone:	8E4G11
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	PMS2
Alternative Name:	PMS2 (PMS2 Products)
Background:	Description: 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

Target Details

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. [provided by RefSeq, Apr 2016]

Aliases: MLH4, PMSL2, HNPCC4, PMS2CL

Molecular Weight: 95.8 kDa

Gene ID: 5395

Pathways: [DNA Damage Repair](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Application Notes: WB:1:500 - 1:2000, ICC:1:100 - 1:500, FCM:1:200 - 1:400, ELISA:1:10000,

Restrictions: For Research Use only

Handling

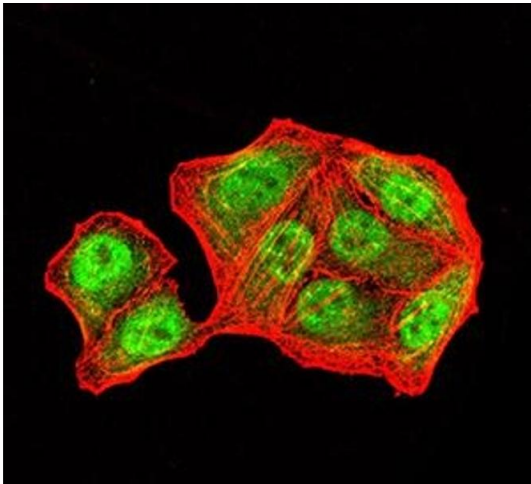
Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

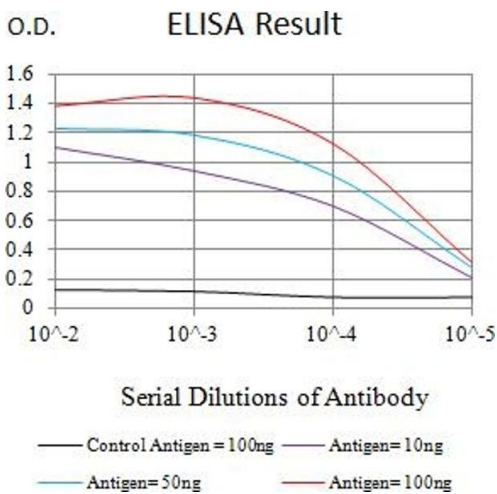
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage



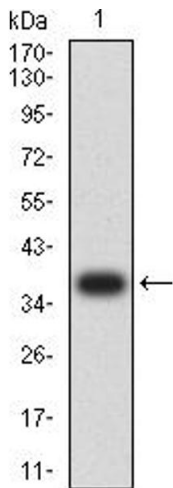
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using PMS2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



ELISA

Image 2. Black line: Control Antigen (100 ng),Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line:Antigen (100 ng)



Western Blotting

Image 3. Western blot analysis using PMS2 mAb against human PMS2 (AA: 748-851) recombinant protein. (Expected MW is 37.7 kDa)

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7193481.