

CoraLite® Plus 488-conjugated PMS1 Monoclonal antibody

Catalog Number: **CL488-68413**

Basic Information

Catalog Number:

CL488-68413

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28127

GenBank Accession Number:

BC096331

GeneID (NCBI):

5378

UNIPROT ID:

P54277

Full Name:PMS1 postmeiotic segregation
increased 1 (S. cerevisiae)**Observed MW:**

106 kDa

Purification Method:

Protein A purification

CloneNo.:

1A6G3

Recommended Dilutions:

IF/ICC 1:200-1:800

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC : Caco-2 cells,

Background Information

PMS1 Homolog 1 is a member of the DNA mismatch repair enzymes (MMREs) which is to eliminate the mismatch of insertions and deletions as a consequence of DNA polymerase errors at DNA synthesis in eukaryotes. PMS1 and MLH1 could form a heterodimer MutL β that belongs to MMREs (PMID:25619773). In the MMR system, the MutS complex recognizes the DNA mispairs firstly, and then the MLh1-Pms1 and other associated proteins such as PCNA, RFC, ExoI were recruited, inducing Exonuclease 1 (Exo1)-dependent and -independent MMR pathways (PMID:24981171). Mutations in this gene cause hereditary nonpolyposis colorectal cancer (HNPCC), which is also known as Lynch syndrome. It was reported that PMS1 is a widely expressed protein and located in the nucleus. Alternative splicing allows for 4 isoforms of PMS1 protein.

Storage

Storage:

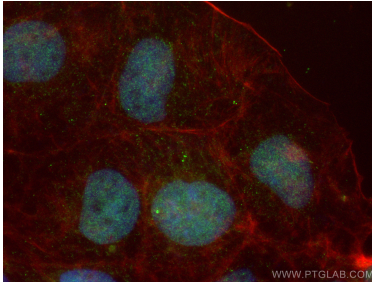
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

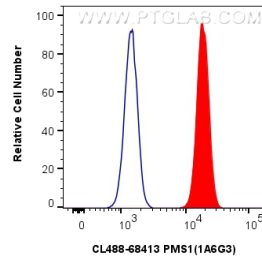
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using Coralite® Plus 488 PMS1 antibody (CL488-68413, Clone: 1A6G3) at dilution of 1:200, CL594-Phalloidin (red).



1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug Coralite® Plus 488-conjugated PMS1 Monoclonal antibody (CL488-68413, Clone:1A6G3) (red), or 0.4 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).