

For Research Use Only

PMS1 Polyclonal antibody

Catalog Number: 10859-1-AP **2 Publications**



Basic Information

Catalog Number:

10859-1-AP

Size:

130 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1158

GenBank Accession Number:

BC008410

GeneID (NCBI):

5378

UNIPROT ID:

P54277

Full Name:

PMS1 postmeiotic segregation increased 1 (*S. cerevisiae*)

Calculated MW:

106 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

Background Information

The multiple eukaryotic homologs of the bacterial MutL mismatch repair protein are implicated along with MutS homologs in maintaining genomic integrity during DNA replication and recombination [PMID:16612326]. DNA mismatch repair (MMR) corrects replication errors that would otherwise lead to mutations and, potentially, various forms of cancer. Among several proteins required for eukaryotic MMR, MutL α is a heterodimer comprised of Mlh1 and PMS1 [PMID:19115045]. PMS1 contains an N-terminal domain (NTD) and C-terminal domain (CTD), which separated by a flexible linker. Dimerization occurs between the CTDs and the CTD of PMS1 houses a strand-specific endonuclease that is necessary for MMR [PMID:17951253].

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyu Cao	31201471	J Mol Med (Berl)	WB, IHC
Cédric Van Marcke	32295625	Breast Cancer Res	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data