For Research Use Only

PMS1 Polyclonal antibody

Catalog Number:10859-1-AP 2 Publications

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Basic Information

Catalog Number:
10859-1-AP

Size:
150ul , Concentration: 133 μg/ml by Bradford method using BSA as the standard;

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, MutLα 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

*** 20ul sizes contain 0.1% BSA

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