For Research Use Only

MUS81 Polyclonal antibody

Catalog Number:11018-1-AP Featured Product 2 Publications

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Basic Information

Catalog Number:
11018-1-AP

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1476

GenBank Accession Number:
BC009999

GeneID (NCBI):
80198

UNIPROT ID:
Q96NY9

Full Name:
MUS81 endonuclease homolog (S. cerevisiae)

Calculated MW:
61 kDa

Observed MW:
52-72 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IF/ICC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

WB : HepG2 cells, NIH/3T3 cells

IF/ICC : MCF-7 cells,

Background Information

The Crossover junction endonuclease MUS81 has associated endonuclease activity against structure-specific oligonucleotide substrates, including synthetic Holliday junctions(PMID:11741546). It interacts with EME1 and EME2 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. The open reading frame of human MUS81 predicts a translation product of 551 amino acids with a molecular mass of 59 kD. There are some reports showed that the enzyme can express a 72 kDa protein in human tissues(PMID:12724407).

Notable Publications

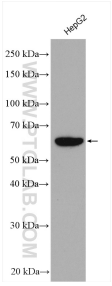
Author	Pubmed ID	Journal	Application
Yixi Xu	29106372	Elife	WB
Antonio Marzio	34963055	Cell	WB,IHC

Storage

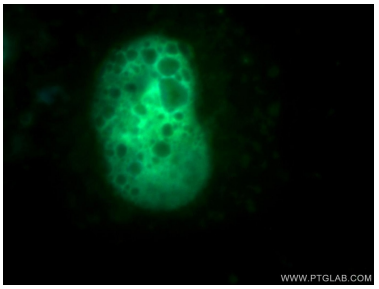
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 11018-1-AP (MUS81 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of MCF-7 cells, using MUS81 antibody 11018-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG(green). Blue pseudocolor = DAPI (fluorescent DNA dye).