

For Research Use Only

MPG Polyclonal antibody

Catalog Number: 11481-2-AP **3 Publications**



Basic Information

Catalog Number:
11481-2-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2034

GenBank Accession Number:
BC014991

GeneID (NCBI):
4350

Full Name:
N-methylpurine-DNA glycosylase

Calculated MW:
293 aa, 32 kDa

Observed MW:
33 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB
IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HepG2 cells, Jurkat cells, MCF-7 cells

IP: HepG2 cells,

IHC: human prostate cancer tissue,

Background Information

N-methylpurine DNA glycosylase (MPG), an initiator glycosylase of the base excision repair (BER) pathway, typically repairs alkyl-induced DNA adducts, many of which are associated with genomic instability and tumorigenic risk [PMID:22801474]. MPG initiates BER by removing TMZ-induced N3-methyladenine and N7-methylguanine base lesions, leaving abasic sites (AP sites) in DNA for further processing by BER [PMID:21377995]. MPG involves in modulating the genotoxic threshold response induced by the Sn2 alkylating agent ethyl methanesulfonate (EMS) [PMID:21071726].

Notable Publications

Author	Pubmed ID	Journal	Application
Mizuki Yamamoto	25829532	J Radiat Res	WB
Xuedan Sun	32149459	EMBO Rep	WB
Bowen Li	35712126	J Oncol	WB

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**

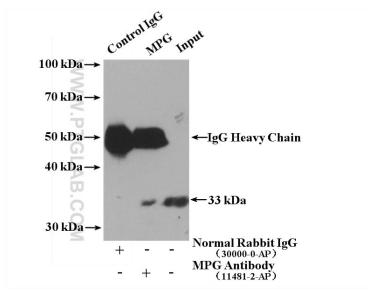
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com
W: ptglab.com

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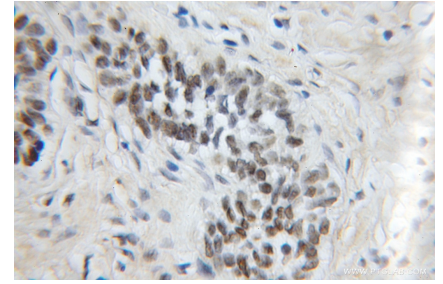
Selected Validation Data



IP result of anti-MPG (IP:11481-2-AP, 4 μ g; Detection:11481-2-AP 1:300) with HepG2 cells lysate 2200 μ g.



HepG2 cells were subjected to SDS PAGE followed by western blot with 11481-2-AP (MPG antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 11481-2-AP (MPG antibody) at dilution of 1:50 (under 10x lens).