

APNG/MPG Rabbit pAb

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Catalog # AP58019

Product Information

Application	WB
Primary Accession	P29372
Reactivity	Human
Predicted	Rat, Pig, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32869
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human APNG/MPG
Epitope Specificity	101-200/298
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MPG (N-methylpurine DNA glycosylase, or 3-methyladenine (3MeA) DNA glycosylase) repairs the 3MeA lethal lesion blocking DNA replication in Escherichia coli. Analysis of human cDNA libraries found a cDNA that would hybridize to human genomic DNA but not to E. coli or yeast DNA. This MPG gene has been mapped to human chromosome 16 by analysis of a panel of DNAs from mouse/human and hamster/human hybrid cell lines.

Additional Information

Gene ID	4350
Other Names	DNA-3-methyladenine glycosylase, 3.2.2.21, 3-alkyladenine DNA glycosylase, 3-methyladenine DNA glycosidase, ADPG, N-methylpurine-DNA glycosylase, MPG, AAG, ANPG, MID1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

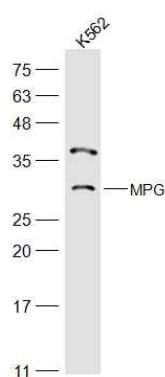
Protein Information

Name	MPG
Synonyms	AAG, ANPG, MID1
Function	Hydrolysis of the deoxyribose N-glycosidic bond to excise 3- methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.
Cellular Location	Cytoplasm. Mitochondrion matrix, mitochondrion nucleoid. Nucleus

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Images



Sample:
K562(Human) Cell Lysate at 30 ug
Primary: Anti-MPG (AP58019) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 33 kD
Observed band size: 33 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.