

APNG/MPG Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58019

Specification

APNG/MPG Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession <u>P29372</u>

Reactivity Rat, Pig, Bovine Rabbit

Clonality Polyclonal Calculated MW 33 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human APNG/MPG

Epitope Specificity 101-200/298

Isotype IgG
Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus.

SIMILARITY Belongs to the DNA glycosylase MPG

family.

SUBUNIT Belongs to the DNA glycosylase MPG

family.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

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.

APNG/MPG Polyclonal Antibody - Additional Information

Gene ID 4350

Other Names

DNA-3-methyladenine glycosylase, 3.2.2.21, 3-alkyladenine DNA glycosylase, 3-methyladenine DNA glycosylase, ADPG, N-methylpurine-DNA glycosylase, MPG, AAG, ANPG, MID1

Dilution

WB~~1:1000<br \><span class</pre>

="dilution_IHC-P">IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \><span class



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="dilution IF">IF \sim 1:50 \sim 200
span class ="dilution E">E \sim N/A

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.

APNG/MPG Polyclonal Antibody - 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

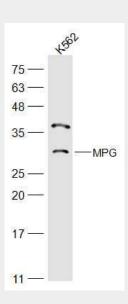
Cytoplasm. Mitochondrion matrix, mitochondrion nucleoid. Nucleus

APNG/MPG Polyclonal Antibody - Protocols

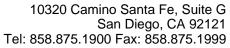
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

APNG/MPG Polyclonal Antibody - Images



Sample:





K562(Human) Cell Lysate at 30 ug

Primary: Anti-MPG (bs-2412R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD Observed band size: 33 kD