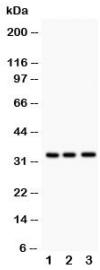
MPG Antibody (R30923)

Catalog No.	Formulation	Size
R30923	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P29372
Applications	Western blot: 0.5-1ug/ml
Limitations	This MPG antibody is available for research use only.



Western blot testing of MPG antibody and Lane 1: rat liver; 2: human HeLa; 3: (h) Jurkat. Predicted molecular weight: ~33kDa.

Description

N-Methylpurine-DNA glycosylase is encoded by the MPG gene, mapped to human chromosome 16 by analysis of a panel of DNAs from mouse/human and hamster/human hybrid cell lines. The gene was expressed in all cell lines and tissues examined, but was found at particularly high levels in a colon adenocarcinoma cell line (HT29). The completely characterized human gene was found to span 7 to 8 kb of genomic DNA and to be localized 75 kb upstream of the embryonic zeta-globin gene. To assess the contribution of MPG to the repair of several mutagenic lesions in vivo, Hang et al.(1997) biochemically analyzed cell-free extracts of tissues from mice with a targeted deletion of the gene. Following treatment with DNA-methylating agents, increased persistence of 7-methylguanine (meG) was found in liver sections of

MPG knockout mice in comparison with wildtype mice, demonstrating an in vivo phenotype for the MPG-null animals.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MPG antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human MPG (NKSFDQRDLAQDEAVW) was used as the immunogen for this MPG antibody.

Storage

After reconstitution, the MPG antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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