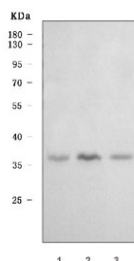


## DNA-3-methyladenine glycosylase Antibody / MPG / AAG (RQ7265)

| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ7265      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

|                           |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                 |
| <b>Species Reactivity</b> | Human                                                                             |
| <b>Format</b>             | Antigen affinity purified                                                         |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                        |
| <b>Isotype</b>            | Rabbit IgG                                                                        |
| <b>Purity</b>             | Antigen affinity purified                                                         |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose                                         |
| <b>UniProt</b>            | P29372                                                                            |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Direct ELISA : 0.1-0.5ug/ml                          |
| <b>Limitations</b>        | This DNA-3-methyladenine glycosylase antibody is available for research use only. |



Western blot testing of human 1) HepG2, 2) Jurkat and 3) 293T cell lysate with DNA-3-methyladenine glycosylase antibody. Predicted molecular weight ~33 kDa.

### Description

MPG (N-methylpurine-DNA glycosylase) also known as MDG, 3-METHYLADENINE DNA GLYCOSYLASE, 3MeAde DNA GLYCOSYLASE, AAG and APNG is a protein 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 MPG 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 Apng 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 Apng gene. Following treatment with DNA-methylating agents, increased persistence of 7-methylguanine (meG) was found in liver sections of APNG knockout mice.

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

## **Application Notes**

Optimal dilution of the DNA-3-methyladenine glycosylase antibody should be determined by the researcher.

## **Immunogen**

Recombinant human protein (amino acids Q20-A298) was used as the immunogen for the DNA-3-methyladenine glycosylase antibody.

## **Storage**

After reconstitution, the DNA-3-methyladenine glycosylase antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.