

# Human UNG antibody

Catalog Number: AUN0713

## PRODUCT INFORMATION

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**Catalog number**

AUN0713

**Clone No.**

k1C12

**Product type**

Monoclonal Antibody

**UnitProt No.**

P13051

**NCBI Accession No.**

NP\_550433

**Alternative Names**

uracil-DNA glycosylase isoform UNG2, uracil-DNA glycosylase, UDG, UNG1, UNG2, HIGM4, uracil-DNA glycosylase 1, uracil-DNA glycosylase 2

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human UNG (1-313aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

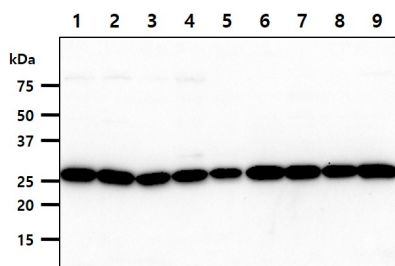
The human UNG gene encodes both mitochondrial (UNG1) and nuclear (UNG2) forms of uracil-DNA glycosylase (UNG). These forms are generated from transcription from alternative promoters, promoter A and promoter B respectively, and the subsequent use of alternative splicing. UNG is responsible for the removal of uracil from DNA by hydrolysis of the N-glycosidic bond that links the base to the deoxyribose backbone, leaving an abasic site. UNG is a highly conserved enzyme found in many species.

### General References

- Jau der C et al.,(1991) J Bacteriol 173(1):283-290.
- Haug T et al.,(1998) Nucleic Acids Res. 26(6):1449-1457.
- Hilde N et al.,(2000) Nucleic Acids Res. 28(12):2277-2285.
- Stuart R.W. Bellamy et al.,(2007) Nucleic Acids Res. 35(5):1478-1487.
- Chih chung L et al.,(2007) J Virol 81(3):1195-1208.

## DATA

### Western blot analysis (WB)



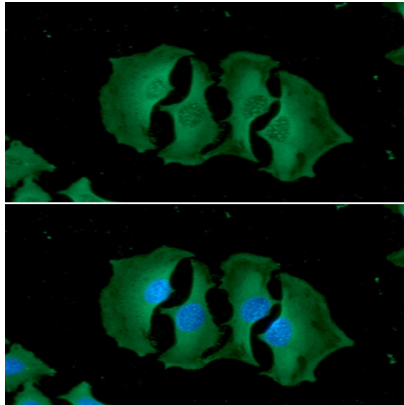
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human UNG antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: HeLa cell lysate
- Lane 2.: Jurkat cell lysate
- Lane 3.: MCF7 cell lysate
- Lane 4.: K562 cell lysate
- Lane 5.: 293T cell lysate
- Lane 6.: HepG2 cell lysate
- Lane 7.: A549 cell lysate
- Lane 8.: SK-OV-3 cell lysate
- Lane 9.: PC3 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of UNG in HeLa cells. The cell was stained with AUN0713 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).