Human UNG antibody

Catalog Number: AUN0713

PRODUCT INFORMATION

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

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

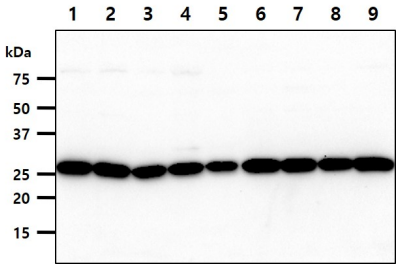
The human UNG gene encodes both mitochondrial (UNG1) and nuclear (UNG2) forms of uracil-DNA glycosylase (UNG). These forms are generated from transcription from alternative promoters, promoter A and promoter B respectively, and the subsequent use of alternative splicing. UNG is responsible for the removal 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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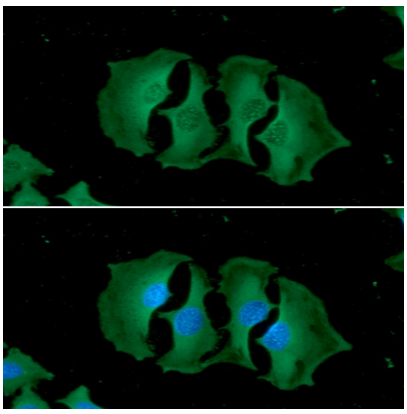

ICC/IF analysis of UNG in HeLa cells. The cell was stained with AUN0713 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).