Product Name: UDG Rabbit Polyclonal Antibody
Catalog #: APRab19603

Summary

Production Name	UDG Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	UNG
Alternative Names	UNG; DGU; UNG1; UNG15; Uracil-DNA glycosylase; UDG
Gene ID	7374.0
SwissProt ID	P13051.The antiserum was produced against synthesized peptide derived from human UNG. AA range:191-240

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000..
Molecular Weight	35kD

Background

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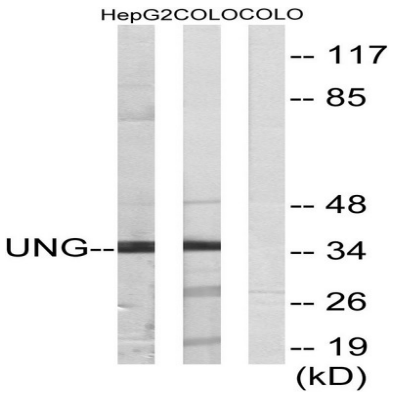
This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases. [provided by RefSeq, Nov 2010],disease:Defects in UNG are a cause of immunodeficiency with hyper-IgM type 5 syndrome (HIGM5) [MIM:608106]. Hyper-IgM syndrome is a condition characterized by normal or increased serum IgM concentrations associated with low or absent serum IgG, IgA, and IgE concentrations. HIGM5 is associated with profound impairment in immunoglobulin (Ig) class-switch recombination (CSR) at a DNA precleavage step.,function:Excises uracil residues from the DNA which can arise as a result of misincorporation of dUMP residues by DNA polymerase or due to deamination of cytosine.,online information:UNG mutation db,PTM:Isoform 1 is processed by cleavage of a transit peptide.,similarity:Belongs to the uracil-DNA glycosylase family.,subunit:Monomer. Interacts with HIV-1 Vpr.,tissue specificity:Isoform 1 is widely expressed with the highest expression in skeletal muscle, heart and testicles. Isoform 2 has the highest expression levels in tissues containing proliferating cells.,

Research Area

Base excision repair;Primary immunodeficiency;

Image Data



Western blot analysis of lysates from HepG2 and COLO cells, using UNG Antibody. The lane on the right is blocked with the synthesized peptide.

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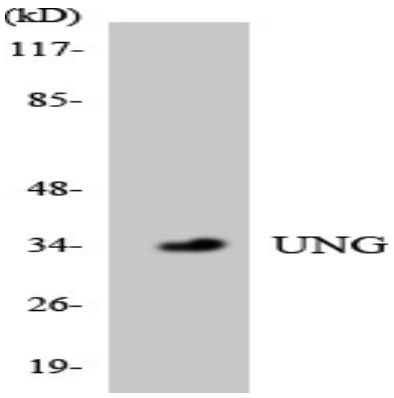
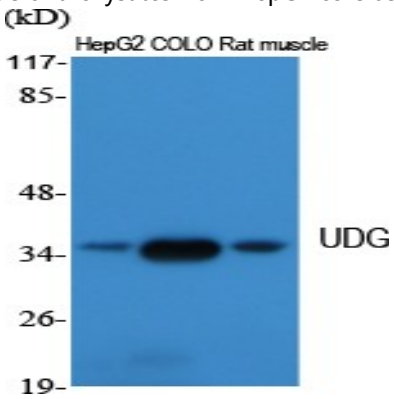
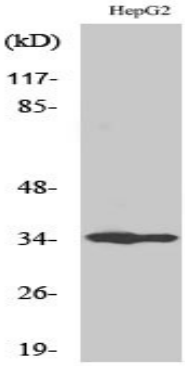


Western blot analysis of the lysates from HepG2 cells using UNG antibody.



Western Blot analysis of various cells using UDG Polyclonal Antibody. Secondary antibody was diluted at 1:20000



Western Blot analysis of COLO205 cells using UDG Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Note

For research use only.