

UNG Polyclonal Antibody

Catalog NumberPA5-20264

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	A 14 amino acid peptide from near the carboxy terminus of human UNG1.	Immunohistochemistry (IHC)	2 µg/mL
Conjugate	Unconjugated	Western Blot (WB)	0.5-2 µg/mL
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is C2C12 cell lysate. PA5-20264 can be used with blocking peptide PEP-0379.

Background/Target Information

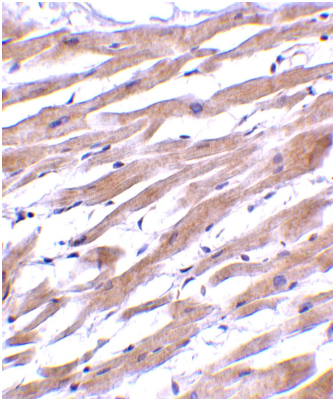
The human UNG gene encodes both nuclear (UNG2) and mitochondrial (UNG1) forms of uracil-DNA glycosylase. These forms are generated by alternative splicing and the use of two differentially regulated promoters, PA and PB. The cDNAs for UNG1 and UNG2 are of similar size (2061 and 2058 bp, respectively) and as a result the corresponding mRNAs are not resolved as two species in gel electrophoresis. Nuclear UNG2 differs from mitochondrial UNG1 in 44 amino acids of the N-terminal sequence that is not necessary for catalytic activity. A major role of the UNG gene products is to repair mutagenic U:G mispairs caused by cytosine deamination. For example, UNG2 removes misincorporated dUMP residues. The level and expression pattern of UNG1 and UNG2 differs between cell and tissue type. Additionally, the expression of UNG is cell cycle regulated. The expression and activity of UNG has been found in general to be higher in proliferating as compared to nonproliferating tissues and cells. UNG1 is a 304 amino acid protein. UNG2 is a 313 amino acid protein.

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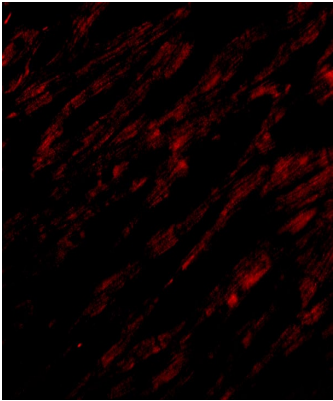
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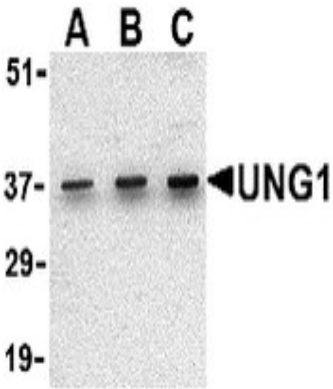
**UNG Antibody (PA5-20264) in IHC (P)**

Immunohistochemical analysis of paraffin-embedded human heart tissue using UNG Polyclonal Antibody (Product # PA5-20264) at 2 µg/mL. Tissue was fixed with formaldehyde and blocked with 0.1 serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



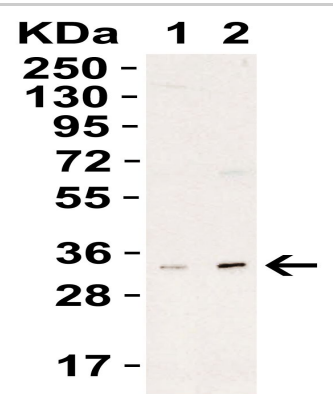
**UNG Antibody (PA5-20264) in IHC (P)**

Immunofluorescent analysis of 4% paraformaldehyde-fixed human heart labeling UNG1 with UNG Polyclonal Antibody (Product # PA5-20264) at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).



**UNG Antibody (PA5-20264) in WB**

Western Blot Validation in Mouse C2C12 Cell Lysate. Loading: 15 µg of lysates per lane. Antibodies: UNG Polyclonal Antibody (Product # PA5-20264) (A: 0.5 µg/mL, B: 1 µg/mL and C: 2 µg/mL), 1h incubation at RT in 0.05 NFDN /TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



**UNG Antibody (PA5-20264) in WB**

Western Blot Validation in HeLa Cell Lysate. Loading: 15 µg of lysates per lane. Antibodies: UNG Polyclonal Antibody (Product # PA5-20264) (Lane 1: 0.5 µg/mL and Lane 2: 1 µg/mL), 1h incubation at RT in 0.05 NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

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