

UNG Polyclonal Antibody

Catalog Number PA5-34823

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	1:500-1:3,000
Type	Antibody	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 44 and 273 of UNG (Uniprot ID#P13051)	* 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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.71 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

Recommended positive controls: HeLa, HeLa transfect shUNG #1, HeLa transfect shUNG #2. Predicted reactivity: Mouse (91%), Rat (91%), Xenopus laevis (81%), Chicken (87%), Chimpanzee (100%), Bovine (97%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

**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.

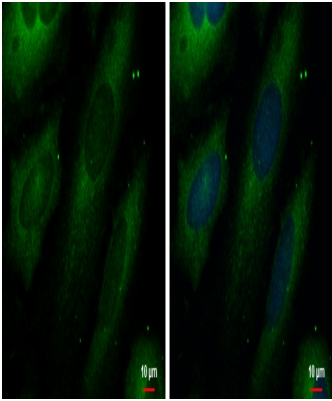
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Product Images For UNG Polyclonal Antibody



UNG Antibody (PA5-34823) in ICC/IF

UNG Polyclonal Antibody detects UNG protein at cytoplasm by immunofluorescent analysis. Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37°C for 30 min. Green: UNG protein stained by UNG Polyclonal Antibody (Product # PA5-34823) diluted at 1:500. Blue: Hoechst 33342 staining.

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