

Datasheet: AHP1201

Description:	RABBIT ANTI URACIL-DNA GLYCOSYLASE 1 (C-TERMINAL)
Specificity:	URACIL-DNA GLYCOSYLASE 1 (C-TERMINAL)
Other names:	UNG1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			0.5 - 1.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human uracil-DNA glycosylase 1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	14 amino acid peptide sequence near the amino terminus of human UNG1.

**External Database
Links**

UniProt:

[P13051](#) [Related reagents](#)

Entrez Gene:

[7374](#) UNG [Related reagents](#)

Synonyms

DGU, UNG1, UNG15

Specificity

Rabbit anti Uracil-DNA glycolase 1 antibody recognizes uracil-DNA glycosylase 1 (UNG1), a member of the uracil-DNA glycosylase and cyclin family. Two isoforms of UNG exist, isoform 1 is expressed in the mitochondria of in skeletal muscle, heart and testicles while isoform 2 (UNG2) is more abundant in proliferating tissues and expressed in the nucleus.

Uracil residues can be misincorporated into DNA by DNA polymerase or by deamination of cytosine. UNG1 is a major enzyme in base excision repair, excising the misincorporated uracil residues in a process crucial to increasing immunoglobulin diversity. In association with activation-induced cytosine deaminase, UNG is also essential to the generation of strand breaks that initiate class switch recombination.

UNG is also involved in the innate immune response against retroviral infections, HIV-1 accessory protein Vpr induces the rapid degradation of UNG2.

Western Blotting

AHP1201 detects a band of approximately 34.6kDa in C2C/2 cell lysates.

Further Reading

1. Hagen, L. *et al.* (2007) Genomic uracil and human disease. [Exp Cell Res. 312:2666-2672.](#)
2. Krokan, H.E. *et al.* (2001) Properties and functions of human uracil-DNA glycosylase from the UNG gene. [Prog Nucleic Acid Res Mol Biol. 68: 365-86.](#)
3. Akbari, M. *et al.* (2007) Different organization of base excision repair of uracil in DNA in nuclei and mitochondria and selective upregulation of mitochondrial uracil-DNA glycosylase after oxidative stress. [Neuroscience. 145 \(4\): 1201-12.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M294451:161004'

Printed on 05 May 2018

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