

Datasheet: AHP1201

**BATCH NUMBER 154328**

<b>Description:</b>	RABBIT ANTI URACIL-DNA GLYCOSYLASE 1 (C-TERMINAL)
<b>Specificity:</b>	URACIL-DNA GLYCOSYLASE 1 (C-TERMINAL)
<b>Other names:</b>	UNG1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	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	<p><b>UniProt:</b>  <a href="#">P13051</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7374</a>    UNG    <a href="#">Related reagents</a></p>
Synonyms	DGU, UNG1, UNG15
RRID	AB_844685
Specificity	<p><b>Rabbit anti Uracil-DNA glycolase 1 antibody</b> 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.</p> <p>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.</p> <p>UNG is also involved in the innate immune response against retroviral infections, HIV-1 accessory protein Vpr induces the rapid degradation of UNG2.</p>
Western Blotting	AHP1201 detects a band of approximately 34.6kDa in C2C/2 cell lysates.
Further Reading	<ol style="list-style-type: none"> <li>1. Hagen, L. <i>et al.</i> (2007) Genomic uracil and human disease. <a href="#">Exp Cell Res. 312:2666-2672.</a></li> <li>2. Krokan, H.E. <i>et al.</i> (2001) Properties and functions of human uracil-DNA glycosylase from the UNG gene. <a href="#">Prog Nucleic Acid Res Mol Biol. 68: 365-86.</a></li> <li>3. Akbari, M. <i>et al.</i> (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. <a href="#">Neuroscience. 145 (4): 1201-12.</a></li> </ol>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1201">https://www.bio-rad-antibodies.com/SDS/AHP1201</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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