**OriGene Technologies Inc.**

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

**OriGene EU**

**Acris Antibodies GmbH**
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

# Polyclonal Antibody to Uracil-DNA glycosylase 2 / Cyclin-O (N-term) - Purified

**Alternate names:** CCNO, Cyclin-like uracil-DNA glycosylase, UDG2, UNG2

**Catalog No.:** AP05612PU-S

**Quantity:** 50 µg

**Concentration:** 1.0 mg/ml

**Background:** Uracil residues can be misincorporated into DNA by DNA polymerase or by deamination of cytosine. UNG2 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, UNG2 is also essential to the generation of strand breaks that initiate class switch recombination.
UNG2 is also involved in the innate immune response against retroviral infections, HIV-1 accessory protein Vpr induces the rapid degradation of UNG2.

**Uniprot ID:** P22674

**NCBI:** NP_066970.3

**GeneID:** 10309

**Host / Isotype:** Rabbit / IgG

**Immunogen:** 14 amino acid peptide sequence near the amino terminus of human UNG2.

**Format:** **State:** Liquid purified IgG
**Buffer System:** Phosphate buffered saline containing 0.02% Sodium Azide

**Applications:** Western blot: 0.5 - 2.0 µg/ml; detects a band of approximately 38kDa in mouse bladder tissue lysate.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody recognises uracil DNA glycosylase 2 (UNG2), a 38 kDa member of the cyclin family, expressed in the nucleus.
**Species:** Human, Mouse, Rat.
Other species not tested.

**Storage:** Store the antibody undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

**Caution:** (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**General Readings:**

1. Hagen, L. et al. (2006) Genomic uracil and human disease. Exp. Cell Res. 312:2666 - 2672.
2. Krokan, H. et al. (2001) Properties and functions of human uracilDNA glycosylase from the UNG gene. Prog. Nucleic Acid Res. Mol. Biol. 68:365 - 386.

**Pictures:**

Western blot analysis of mouse bladder lysate probes with Rabbit anti Human uracil-DNA glycosylase 2 (AP05612PU-N) at 0.5(A), 1(B) and 2(C) µg/ml