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**Product Name: KD-Validated Uracil DNA Glycosylase Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA00853**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human                                                                       |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 34.6kDa                                  |

**Antigen Information**

|                          |                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | UNG                                                                                                                                                                       |
| <b>Alternative Names</b> | UNG; Uracil DNA Glycosylase; UNG1; UDG; HIGM4; UNG2; DGU; Uracil-DNA Glycosylase 1, Uracil-DNA Glycosylase 2; Uracil-DNA Glycosylase; UNG15; EC 3.2.2.27; EC 3.2.2; HIGM5 |
| <b>Gene ID</b>           | 7374.0                                                                                                                                                                    |
| <b>SwissProt ID</b>      | P13051                                                                                                                                                                    |
| <b>Immunogen</b>         | A synthesized peptide derived from human UNG                                                                                                                              |

**Background**

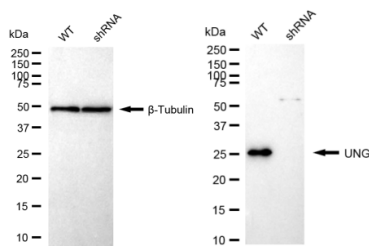
This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision

repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases. [provided by RefSeq, Nov 2010]

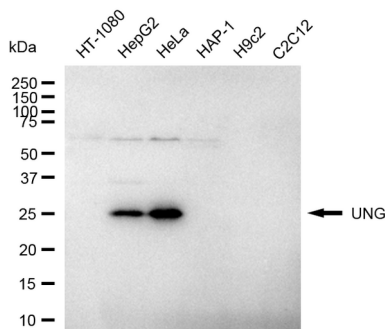
## Research Area

Epigenetics and Nuclear Signaling

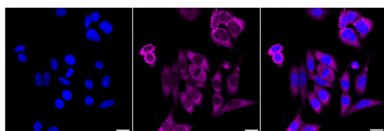
## Image Data



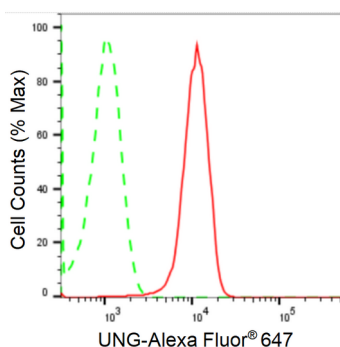
Western blotting analysis using UNG antibody (KVA00853). UNG expression in wild type (WT) and UNG shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with UNG antibody (KVA00853, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using UNG antibody (KVA00853). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with UNG antibody (KVA00853, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with UNG antibody (KVA00853, 1:1,000). Nuclei were stained blue with DAPI; UNG was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of UNG expression in HepG2 cells using UNG antibody (KVA00853, 1:2,000). Green, isotype control; red, UNG.