

## Product datasheet for **TA306336**

### UNG Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	UNG1 antibody was raised against a 13 amino acid peptide from near the amino terminus of human UNG1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	uracil DNA glycosylase
Database Link:	<a href="#">NP_003353</a> <a href="#">Entrez Gene 22256 Mouse</a> <a href="#">Entrez Gene 304577 Rat</a> <a href="#">Entrez Gene 7374 Human</a> <a href="#">P13051</a>



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**Background:**

The human uracil-DNA glycosylase (UNG) gene encodes both mitochondrial (UNG1) and nuclear (UNG2) forms through differentially regulated promoters and alternative splicing. While UNG2 is the major enzyme in the base excision repair pathway that removes uracil residues from nuclear DNA that arise through either misincorporation during replication or cytosine deamination, inhibition of UNG1 by uracil glycosylase inhibitor did not lead to increased levels of spontaneous or induced mitochondrial DNA mutations. However, decreased levels of UNG activity and increased oxidative damage to mitochondrial DNA were seen in older mice, suggesting that mitochondrial DNA repair mechanisms may be involved in various neurodegenerative disorders in an age-dependent manner. This UNG1 antibody will not cross-react with UNG2.

**Synonyms:**

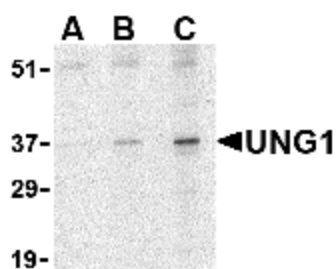
DGU; HIGM4; HIGM5; UDG; UNG1; UNG2; UNG15

**Protein Families:**

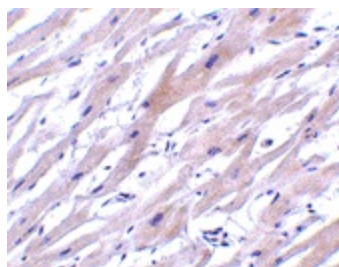
Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:**

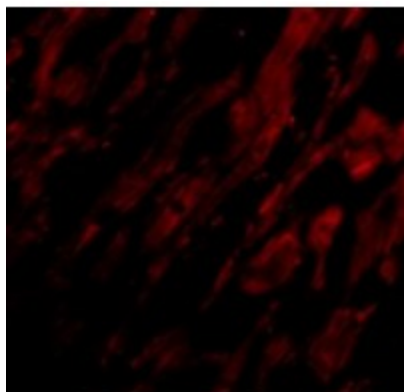
Base excision repair, Primary immunodeficiency

**Product images:**

Western blot analysis of UNG1 in C2C12 cell lysate with UNG1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.



Immunohistochemistry of UNG1 in human heart tissue with UNG1 antibody at 2 ug/ml.



Immunofluorescence of UNG1 in Human Heart cells with UNG1 antibody at 20 ug/mL.