

## Product datasheet

# Anti-UNG antibody ab47680

[1 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-UNG antibody
<b>Description</b>	Rabbit polyclonal to UNG
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody is specific to UNG1. It will not cross react with UNG2.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	A 13 amino acid peptide from near the amino terminus of human UNG1
<b>Positive control</b>	C2C12 cell lysate
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab47680 in the following tested applications.

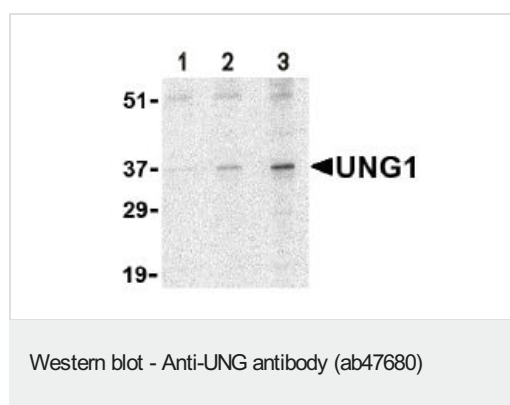
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 35 kDa).
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use a concentration of 2 µg/ml.

## Target

<b>Function</b>	Excises uracil residues from the DNA which can arise as a result of misincorporation of dUMP residues by DNA polymerase or due to deamination of cytosine.
<b>Tissue specificity</b>	Isoform 1 is widely expressed with the highest expression in skeletal muscle, heart and testicles. Isoform 2 has the highest expression levels in tissues containing proliferating cells.
<b>Involvement in disease</b>	Defects in UNG are a cause of immunodeficiency with hyper-IgM type 5 syndrome (HIGM5) [MIM:608106]. Hyper-IgM syndrome is a condition characterized by normal or increased serum IgM concentrations associated with low or absent serum IgG, IgA, and IgE concentrations. HIGM5 is associated with profound impairment in immunoglobulin (Ig) class-switch recombination (CSR) at a DNA precleavage step.
<b>Sequence similarities</b>	Belongs to the uracil-DNA glycosylase family.
<b>Post-translational modifications</b>	Isoform 1 is processed by cleavage of a transit peptide.
<b>Cellular localization</b>	Mitochondrion and Nucleus.

## Images



**Lane 1 :** Anti-UNG antibody (ab47680) at 0.5 µg/ml

**Lane 2 :** Anti-UNG antibody (ab47680) at 1 µg/ml

**Lane 3 :** Anti-UNG antibody (ab47680) at 2 µg/ml

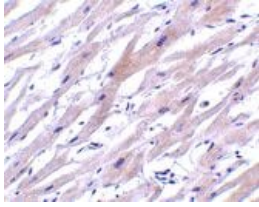
**All lanes :** C2C12 lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 35 kDa

**Observed band size:** 37 kDa

Anti rabbit IgG secondary antibodies can be used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UNG antibody (ab47680)

**ab37170** at 2 µg/ml staining UNG in human heart tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections).

Immunocytochemistry/ Immunofluorescence - Anti-UNG antibody (ab47680)

Immunofluorescence of UNG1 in Human Heart cells using ab47680 at 20 ug/ml.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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