

**Anti-Ogg1 Picoband Antibody**  
Catalog # ABO10110**Specification****Anti-Ogg1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O15527</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Ogg1 detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Ogg1 Picoband Antibody - Additional Information**

**Gene ID** 4968

**Other Names**

N-glycosylase/DNA lyase, 8-oxoguanine DNA glycosylase, 3.2.2.-, DNA-(apurinic or apyrimidinic site) lyase, AP lyase, 4.2.99.18, OGG1, MMH, MUTM, OGH1

**Application Details**

Western blot, 0.1-0.5 µg/ml

**Subcellular Localization**

Nucleus, nucleoplasm.

**Tissue Specificity**

Ubiquitous.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence of human Ogg1 (KYFQLDVTLAQLYHHWGSVDSHFQEVAQKFQGVRLLRQD).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C; for one year. After reconstitution, at 4°C; for one month. It can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and

thawing.

## Anti-Ogg1 Picoband Antibody - Protein Information

**Name** OGG1

**Synonyms** MMH, MUTM, OGH1

### Function

DNA repair enzyme that incises DNA at 8-oxoG residues. Excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N-methylformamidopyrimidine (FAPY) from damaged DNA. Has a beta-lyase activity that nicks DNA 3' to the lesion.

### Cellular Location

Nucleus, nucleoplasm. Nucleus speckle. Nucleus matrix. Note=Together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells [Isoform 2A]; Mitochondrion.

### Tissue Location

Ubiquitous.

## Anti-Ogg1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Ogg1 Picoband Antibody - Images

## Anti-Ogg1 Picoband Antibody - Background

8-Oxoguanine glycosylase also known as OGG1 is a DNA glycosylase enzyme that, in humans, is encoded by the OGG1 gene. This gene encodes the enzyme responsible for the excision of 8-oxoguanine, a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen. The action of this enzyme includes lyase activity for chain cleavage. Alternative splicing of the C-terminal region of this gene classifies splice variants into two major groups, type 1 and type 2, depending on the last exon of the sequence. Type 1 alternative splice variants end with exon 7 and type 2 end with exon 8. All variants share the N-terminal region in common, which contains a mitochondrial targeting signal that is essential for mitochondrial localization. Many alternative splice variants for this gene have been described, but the full-length nature for every variant has not been determined.