

OGG1 Rabbit pAb

Catalog No.: A1384

2 Publications

Basic Information

Observed MW

36kDa

Calculated MW

39kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Human, Mouse, Rat

Background

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.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

Immunogen Information

Gene ID

4968

Swiss Prot

O15527

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-345 of human OGG1 (NP_002533.1).

Synonyms

HMMH; MUTM; OGH1; HOGG1; OGG1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

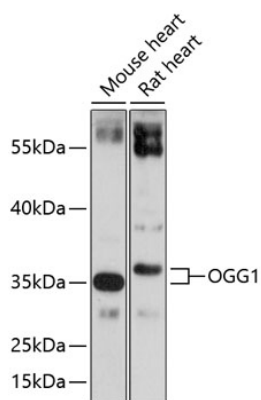
Affinity purification

Storage

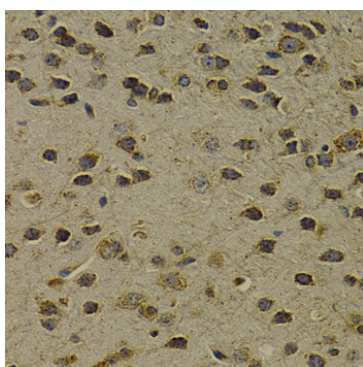
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of various lysates using OGG1 Rabbit pAb (A1384) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunohistochemistry analysis of OGG1 in paraffin-embedded mouse brain using OGG1 Rabbit pAb (A1384) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.