ARG40520
anti-Ogg1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Ogg1
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Ogg1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-345 of Human Ogg1 (NP_002533.1).
Conjugation	Un-conjugated
Alternate Names	EC 4.2.99.18; N-glycosylase/DNA lyase [Includes: 8-oxoguanine DNA glycosylase; HOGG1; MUTM; OGH1; AP lyase; HMMH; apurinic or apyrimidinic site; EC 3.2.2.-

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse heart
Observed Size	36 kDa

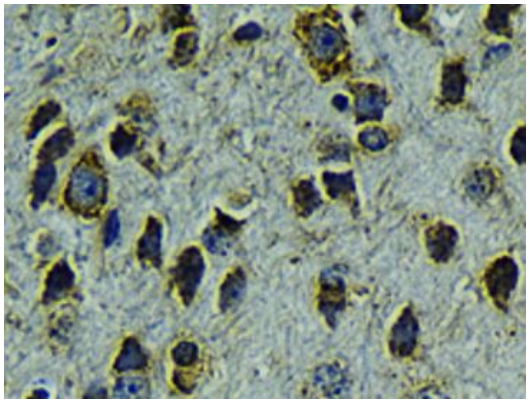
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

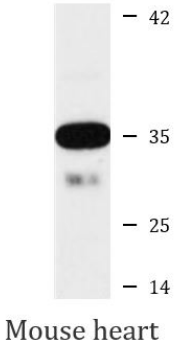
Gene Symbol	OGG1
Gene Full Name	8-oxoguanine DNA glycosylase
Background	This gene encodes the enzyme responsible for the excision of 8-oxoguanine, a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen. The action of this enzyme includes lyase activity for chain cleavage. 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. [provided by RefSeq, Aug 2008]
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. [UniProt]
Calculated Mw	39 kDa
Cellular Localization	Nucleus, nucleoplasm. Nucleus speckle. Nucleus matrix. Note=Together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells. Isoform 1A: Nucleus. Isoform 2A: Mitochondrion. [UniProt]

Images



ARG40520 anti-Ogg1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain stained with ARG40520 anti-Ogg1 antibody at 1:200 dilution.



ARG40520 anti-Ogg1 antibody WB image

Western blot: 25 µg of Mouse heart lysate stained with ARG40520 anti-Ogg1 antibody at 1:1000 dilution.