

Rabbit OGG1 Polyclonal Antibody | anti-OGG1 antibody

OGG1 Antibody

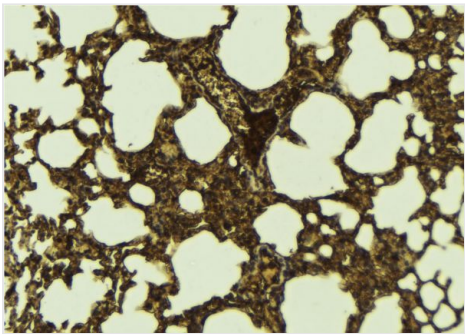
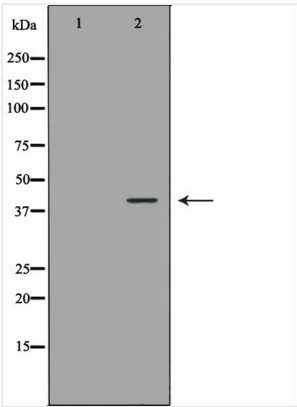
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326174	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

OGG1; Polyclonal Antibody; OGG1 Antibody; 8 hydroxyguanine DNA glycosylase; 8 oxoguanine DNA glycosylase 1; 8 oxoguanine DNA glycosylase; AP lyase; DNA (apurinic or apyrimidinic site) lyase; DNA apurinic or apyrimidinic site lyase; DNA lyase; DNA-(apurinic or apyrimidinic site) lyase; HMMH; HOGG 1; HOGG1; MMH; MUTM; N glycosylase; Ogg 1; Ogg1; OGG1_HUMAN; OGH 1; OGH1; anti-OGG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OGG1 antibody detects endogenous levels of total OGG1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	345
Applicable Applications for anti-OGG1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human OGG1
Subcellular Location	Mitochondrion; Nucleus and Nucleus > Nucleoplasm. Nucleus Speckle. Nucleus Matrix. Together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Bovine, Sheep, Dog
Similarity	Bovine (85%), Sheep (85%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326174 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of human heart tissue, using OGG1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-OGG1 antibody

Description: 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.

Similarity: Belongs to the type-1 OGG1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505495
NCBI GeneID	4968
NCBI Accession #	NP_002533.1
NCBI GenBank Nucleotide #	NM_002542.5
UniProt Accession #	O15527; O00390; O00670; O00705; O14876; O95488; P78554; Q9BW42; Q9UIK0; Q9UIK1; Q9UIK2; A8K1E3
Molecular Weight	Observed: 39 kDa Predicted: 39 kDa
NCBI Official Full Name	N-glycosylase/DNA lyase isoform 1a
NCBI Official Synonym Full Names	8-oxoguanine DNA glycosylase
NCBI Official Symbol	OGG1
NCBI Official Synonym Symbols	HMMH; MUTM; OGH1; HOGG1
NCBI Protein Information	N-glycosylase/DNA lyase
UniProt Protein Name	N-glycosylase/DNA lyase
UniProt Gene Name	OGG1
UniProt Synonym Gene Names	MMH; MUTM; OGH1; AP lyase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ogg1-antibody-immunohistochemistry-western-blot-elisa/326174>