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OGG1 Rabbit pAb

Catalog # AP99795

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O15527
Other Accession	O15527
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38782
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OGG1/8 hydroxyguanine DNA glycosylase
Epitope Specificity	151-250/424
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the type-1 OGG1 family.
DISEASE	Defects in OGG1 may be a cause of renal cell carcinoma (RCC) [MIM:144700]. It is a heterogeneous group of sporadic or hereditary carcinoma derived from cells of the proximal renal tubular epithelium. It is subclassified into clear cell renal carcinoma (non-papillary carcinoma), papillary renal cell carcinoma, chromophobe renal cell carcinoma, collecting duct carcinoma with medullary carcinoma of the kidney, and unclassified renal cell carcinoma.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	4968
Other Names	HMMH; HOGG1; MUTM; OGH1; Mmh; OGG1_HUMAN; OGG1; OGG1_MOUSE; 8-oxoguanine DNA glycosylase; 8-hydroxyguanine DNA glycosylase; OGG1 type 1e; OGG1 type 1d; OGG1 type 1g; OGG1 type 1h

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.