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OGG1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6931b

Product Information

Application	WB, E
Primary Accession	O15527
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38782
Antigen Region	318-345

Additional Information

Gene ID	4968
Other Names	N-glycosylase/DNA lyase, 8-oxoguanine DNA glycosylase, 322-, DNA-(apurinic or apyrimidinic site) lyase, AP lyase, OGG1, MMH, MUTM, OGH1
Target/Specificity	This OGG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 318-345 amino acids from the C-terminal region of human OGG1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	OGG1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

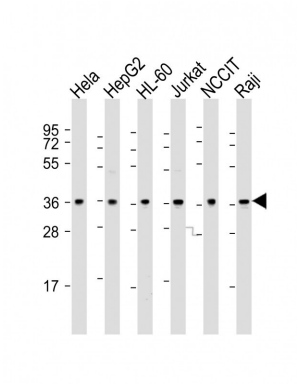
Background

OGG1 is 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.

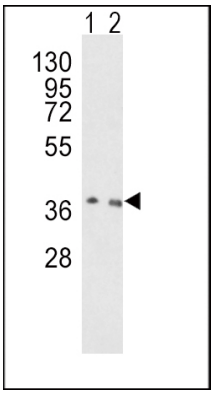
References

Wozniak,K., et.al., J. Biomed. Biotechnol. 2009, 827562 (2009)

Images



All lanes : Anti-OGG1 Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: NCCIT whole cell lysate Lane 6: Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of OGG1 Antibody (C-term) (Cat. #AP6931b) in Hela(lane 1), NIH-3T3(lane 2) cell line lysates (35ug/lane). OGG1 (arrow) was detected using the purified Pab.

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