

Basic Information

Product Name	Anti-OGG1 Antibody	
Gene Name	OGG1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Ogg1, which shares 89.7% and 87.2% amino acid (aa) sequence identity with mouse and rat Ogg1, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	39 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	ImmunoPrecipitation (IP):	1:250-300
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

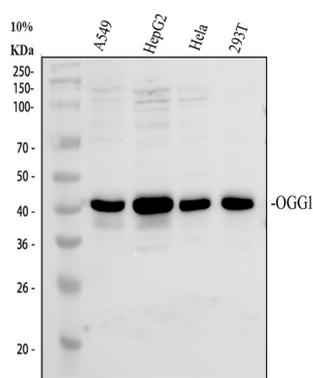
8-Oxoguanine glycosylase also known as OGG1 is a DNA glycosylase enzyme that, in humans, is encoded by the OGG1 gene. This gene encodes the enzyme responsible for the excision of 8-oxoguanine, a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen. The action of this enzyme 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.

Reference

Anti-OGG1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of OGG1 using anti-OGG1 antibody (A00768-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

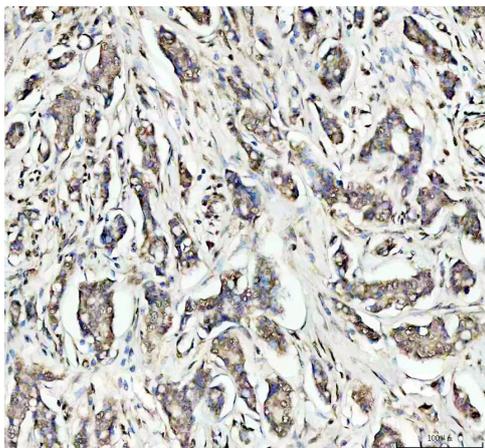
Lane 2: human HepG2 whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: human 293T whole cell lysates.

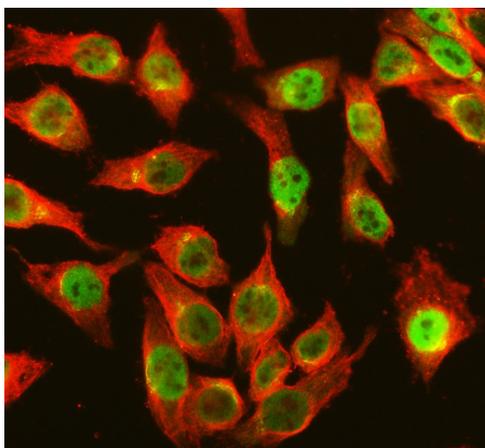
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-OGG1 antiA03957-Aen affinity purified polyclonal antibody (A00768-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for OGG1 at approximately 39 kDa. The expected band size for OGG1 is at 39 kDa.



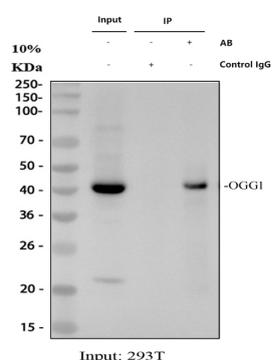
IHC analysis of OGG1 using anti-OGG1 antibody (A00768-1).

OGG1 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-OGG1 Antibody (A00768-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of OGG1 using anti-OGG1 antibody (A00768-1) and anti-Beta Tubulin antibody (M01857-3).

OGG1 was detected in an immunocytochemical section of HeLa cells. The section was incubated with rabbit anti-OGG1 Antibody (A00768-1) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red) (Catalog # BA1031) were used as secondary antibody.



IP analysis of OGG1 using anti-OGG1 antibody (A00768-1) in 293T whole cell lysate.

Western blot analysis of OGG1 using anti- OGG1 antibody (A00768-1).

Lane 1: 293T whole cell lysates(30ug),

Lane 2: Rabbit control IgG instead of anti- OGG1 antibody in 293T whole cell lysate,

Lane 3: anti- OGG1 antibody (2μg) + 293T whole cell lysate (500μg).

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti- OGG1 antigen affinity purified polyclonal antibody (A00768-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was

Product datasheet

Anti-OGG1 Antibody

Catalog Number: **A00768-1**

BOSTER[®]

antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.

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detected for OGG1 at approximately 39 kDa. The expected band size for OGG1 is at 39 kDa.