For Research Use Only

OGG1 Polyclonal antibody

Catalog Number: 15125-1-AP 32 Publications



Basic Information

Catalog Number: GenBank Accession Number:

15125-1-AP BC000657 GeneID (NCBI): Size:

150ul , Concentration: 700 ug/ml by Nanodrop:

UNIPROT ID: 015527 Rabbit Full Name:

Isotype: 8-oxoguanine DNA glycosylase

IgG Calculated MW:

Immunogen Catalog Number: 22 kDa, 36-40 kDa, 45-57 kDa

AG7204 Observed MW: 36-40 kDa, 45-50 kDa

Positive Controls:

WB: A549 cells, Transfected HEK-293 cells, HeLa cells, mouse skeletal muscle tissue, rat skeletal muscle

Purification Method:

WB 1:500-1:1000

protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

tissue

IP: mouse heart tissue. IHC: mouse liver tissue. IF/ICC: A431 cells,

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF Species Specificity:

human, mouse, rat **Cited Species:** human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The DNA damages induced by ROS contain base modification, base loss, and DNA single strand breaks, which are usually repaired by the base excision repair (BER) pathway in both prokaryotes and eukaryotes. OGG1 (The human 8-oxoguanine glycosylase 1) is the primary enzyme in BER pathway, responsible for the excision of 7, 8-dihydro-8oxoguanine (8-oxoG), a mutagenic base byproduct that occurs as a result of exposure to reactive oxygen species. There's 8 isoforms of OGG1, with calculated MW 22 kDa, 36-40 kDa and 45-57 kDa. The difference among these isoforms is the C-terminal (317-345aa). Our OGG1 antibody detects all the isoforms. We always got the strongest 47 kDa corresponds to isoform Beta in our detection and some weaker bands (with long time exposure). The expression amount of Beta is higher than other isoforms from our data. This antibody has been cited in more than 4 publications, WB and IHC detection in mouse and human.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhijian Zheng	36280140	Cell Mol Gastroenterol Hepatol	WB
Jie Fan	36435451	Virol Sin	WB,IF
Rachel Adihe Lokanga	24858908	Hum Mol Genet	WB

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

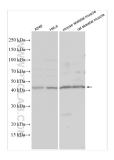
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

in USA), or 1(312) 455-8498 (outside USA)

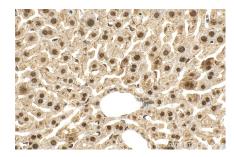
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

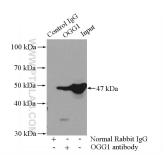
Selected Validation Data



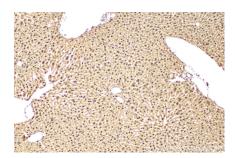
Various lysates were subjected to SDS PAGE followed by western blot with 15125-1-AP (OGG1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 15125-1-AP (OGG1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-OGG1 (IP:15125-1-AP, 4ug; Detection:15125-1-AP 1:500) with mouse heart tissue lysate 3200ug.



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 15125-1-AP (OGG1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using OGG1 antibody (15125-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).