

For Research Use Only

# OGG1 Polyclonal antibody

Catalog Number: 30302-1-AP



## Basic Information

<b>Catalog Number:</b> 30302-1-AP	<b>GenBank Accession Number:</b> BC000657	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 4968	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O15527	
<b>Isotype:</b> IgG	<b>Full Name:</b> 8-oxoguanine DNA glycosylase	
<b>Immunogen Catalog Number:</b> AG32962	<b>Calculated MW:</b> 22 kDa, 36-40 kDa, 45-57 kDa	
	<b>Observed MW:</b> 36-40 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, rat skeletal muscle tissue
<b>Species Specificity:</b> Human, Rat	

## 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-8-oxoguanine (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).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

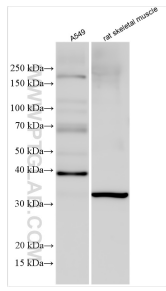
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30302-1-AP (OGG1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.