

Datasheet for ABIN674319

**anti-8-OHDG antibody****3** Images**9** Publications[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	8-OHDG
Reactivity:	Please inquire
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 8-OHDG antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

## Product Details

Immunogen:	KLH conjugated 8-OhdG
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	8-OHdG
Purification:	Purified by Protein A.

## Target Details

Target:	8-OHDG
Abstract:	<a href="#">8-OHDG Products</a>

## Target Details

Target Type:	Chemical
Background:	<p>Synonyms: 8-Hydroxy-2'-deoxyguanosine, 8-Hydroxydeoxyguanosine, 8 hydroxyguanine, 8 hydroxyguanosine, 8 OHG, 8-OHG, 8OG, 8OHdG, 8OHG,</p> <p>Background: 8-Hydroxydeoxyguanosine (8OHdG) is a modified base that occurs in DNA due to attack by hydroxyl radicals that are formed as byproducts and intermediates of aerobic metabolism and during oxidative stress. There is increasing evidence to support the involvement of free radical reactions in the damage of biomolecules that eventually lead to several diseases in humans, such as atherosclerosis, cerebral and heart ischemia-reperfusion injury, cancer, rheumatoid arthritis, inflammation, diabetes, aging, and neurodegenerative conditions, such as Alzheimer's disease.</p>

## Application Details

Application Notes:	IHC-P 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

Product cited in:	Leem, Park, Park, Kim, Kim: "Suppression of neuroinflammation and α-synuclein oligomerization by rotarod walking exercise in subacute MPTP model of Parkinson's disease." in: <b>Neurochemistry international</b> , Vol. 165, pp. 105519, (2023) ( <a href="#">PubMed</a> ).
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Du, West, Cai, Cheng, Ewert, Li, Floyd, Kopke: "Antioxidants reduce neurodegeneration and accumulation of pathologic Tau proteins in the auditory system after blast exposure." in: **Free radical biology & medicine**, Vol. 108, pp. 627-643, (2017) ([PubMed](#)).

Yu, Bei, Li, Han, Zhong, Liu, Zhao, Zhu, Zhao: "In vitro the differences of inflammatory and oxidative reactions due to sulfur mustard induced acute pulmonary injury underlying intraperitoneal injection and intratracheal instillation in rats." in: **International immunopharmacology**, Vol. 47, pp. 78-87, (2017) ([PubMed](#)).

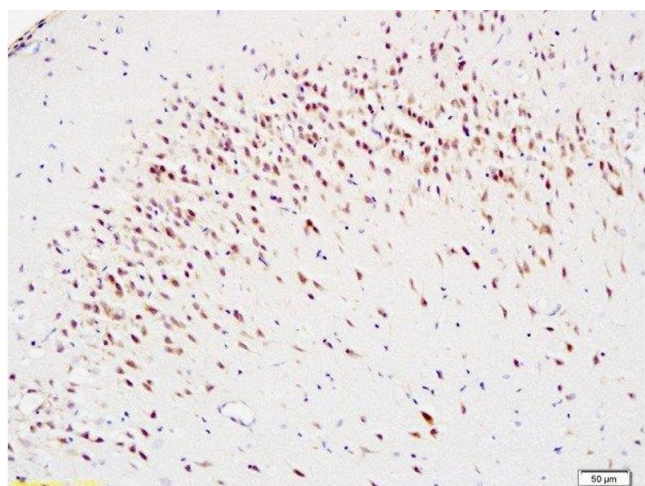
Narayanaswamy, Baral, Haller, Dumler, Acharya, Kiyan: "Transcriptomic pathway analysis of urokinase receptor silenced breast cancer cells: a microarray study." in: **Oncotarget**, Vol. 8, Issue 60, pp. 101572-101590, (2017) ([PubMed](#)).

Tumurkhuu, Shimada, Dagvadorj, Crother, Zhang, Luthringer, Gottlieb, Chen, Arditi: "Ogg1-Dependent DNA Repair Regulates NLRP3 Inflammasome and Prevents Atherosclerosis." in: **Circulation research**, Vol. 119, Issue 6, pp. e76-90, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

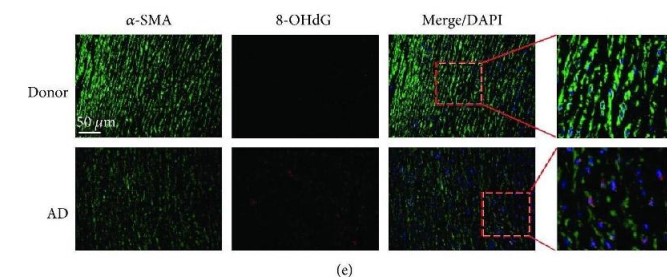
## Images

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### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin embedded rat brain tissue (normal) labeled with Anti-8-OHdG Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Paraffin-embedded Sections)

**Image 2.** BOP1 expression is decreased in ASMCs of AD patients. (a) Images of Masson staining showed collagen (blue) and muscle fibre (red) in the aortic media derived from AD patients and donors (upper panel). Representative images of EVG staining indicated the broken elastic fibre in aortic samples derived from AD patients and donors (lower panel). (b) BOP1 protein expression in the aortic media of donors (n = 4) and AD patients (n = 8) was detected by western blotting, and the related expression level was detected by statistical analysis and shown. (c) Representative image of the aortic specimens stained by BOP1 and p53 by performing IHC. (d) The positive rate was detected by statistical analysis and shown. (e) The 8-hydroxy-2'-deoxyguanosine (8-OHdG) level in the aortic media tissues were detected by performing immunofluorescence and the representative images are shown. Scale bar 50 μm. Data are presented as mean ± SD. P < 0.001 determined by Student's t-test. - figure provided by CiteAb. Source: PMID31210846

Immunofluorescence (Cultured Cells)

**Image 3.** Silencing PLAUR affects proteins involved in DNA metabolism, synthesis and repair(A) Gene interacting networks generated using IPA showing the interacting genes and biological processes involving metabolism and incorporation of nucleotides, (B) MDA-MB-231 cells silenced for PLAUR were irradiated at 9 Gy, after 6 h cells were fixed and stained for 8-OHdG antibody. DraQ5 was used as nuclear stain. Scale Bar 20 μm. - figure provided by CiteAb. Source: PMID29254187

