

# Product Datasheet

## 8-oxo-dG Antibody NB600-1508-50ul

Unit Size: 50 ul

Store at -20C. Avoid freeze-thaw cycles.

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**NB600-1508-50ul**

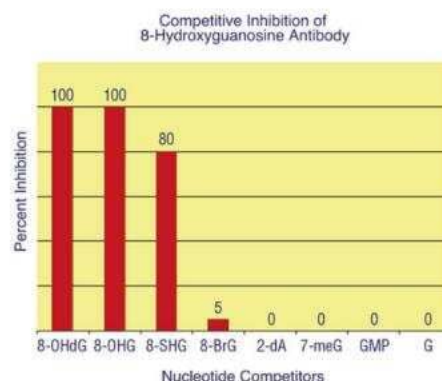
## 8-oxo-dG Antibody

<b>Product Information</b>	
<b>Unit Size</b>	50 ul
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Thimerosal
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Product Description</b>	
<b>Host</b>	Goat
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Due to the conserved nature of the target cross reactivity would be expected in wide range of species. Mouse reactivity reported in scientific literature (PMID: 29559852).
<b>Specificity/Sensitivity</b>	NB600-1508 cross reacts completely with 8-oxo-dG, and does not cross react with other naturally occurring nucleotides.
<b>Immunogen</b>	8-Hydroxy-2'-deoxyguanosine and 8-hydroxyguanosine.
<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	ELISA 1:100000-1:250000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:200
<b>Application Notes</b>	<p>For IHC-Paraffin: It is suggested that the tissues are pretreated with 10 ug/mL of proteinase K for 40 minutes at 37 degrees C prior to staining. Dewaxed sections treated with 3%H<sub>2</sub>O<sub>2</sub> in methanol for 30 minutes and blocking was with 10% serum in TBS. Sections were treated with proteinase K 10ug/ml in PBS pH 7.4, 40 minutes 37 degrees C prior to blocking. Detection is via DAB. Since the antibody is staining a nucleic acid it is important to use enough proteinase to penetrate the histone barrier.</p> <p>Use in ICC/IF reported in scientific literature (PMID: 28269997). Use in Western Blot reported in scientific literature (PMID:32269708).</p>



## Images

ELISA: 8-OHdG Antibody [NB600-1508] - Competitive ELISA using the 8-OHG antibody demonstrates a high specificity towards 8-hydroxydeoxyguanosine (8-OHdG) and 8-hydroxyguanosine nucleotides. Partial cross-reactivity is observed with 8-mercaptoguanosine while 8-bromoguanosine shows some cross-reactivity. 2-Deoxyadenosine, 7-methylguanosine, guanosine monophosphate and guanosine show no reactivity.



## Publications

M Denechaud, S Geurs, T Comptdaer, S Bégard, A Garcia-Núñ, LA Pechereau, T Bouillet, Y Vermeiren, PP De Deyn, R Perbet, V Deramecour, CA Maurage, M Vanderhaeg, S Vanuytven, B Lefebvre, E Bogaert, N Déglon, T Voet, M Colin, L Buée, B Dermaut, MC Galas Tau promotes oxidative stress-associated cycling neurons in S phase as a pro-survival mechanism: possible implication for Alzheimer's disease Progress in neurobiology, 2022-12-06;0(0):102386. 2022-12-06 [PMID: 36481386]

Prieto, I;Zambrano, A;Laso, J;Aranda, A;Samper, E;Monsalve, M; Early induction of senescence and immortalization in PGC-1 alpha-deficient mouse embryonic fibroblasts Free Radic. Biol. Med. 2019-04-25 [PMID: 31029787]

Lin-Feng Tang, Xiaoming Ma, Li-Wei Xie, Hao Zhou, Jiahua Yu, Zhen-Xin Wang, Ming Li Perillaldehyde Mitigates Ionizing Radiation-Induced Intestinal Injury by Inhibiting Ferroptosis via the Nrf2 Signaling Pathway. Molecular nutrition & food research 2023-10-01 [PMID: 37658487]

Alberto Zambrano, Verónica García-Carpizo, María Esther Gallardo, Raquel Villamueva, Maria Ana Gómez-Ferrería, Angel Pascual, Nicolas Buisine, Laurent M. Sachs, Rafael Garesse, Ana Aranda The thyroid hormone receptor  $\beta$  induces DNA damage and premature senescence The Journal of Cell Biology 2014-01-06 [PMID: 24395638]

Rahman H, Kumar D, Liu T et al. Aspirin protects melanocytes and keratinocytes against UVB-induced DNA damage in vivo J. Invest. Dermatol. 2020-06-19 [PMID: 32569596]

Xiao Y, Yao W, Lin M et al. Icaritin-loaded PLGA nanoparticles activate immunogenic cell death and facilitate tumor recruitment in mice with gastric cancer Drug Delivery 2022-12-31 [PMID: 35635307] (Flow Cytometry)

M Cui, A Atmanli, MG Morales, W Tan, K Chen, X Xiao, L Xu, N Liu, R Bassel-Dub, EN Olson Nrf1 promotes heart regeneration and repair by regulating proteostasis and redox balance Nature Communications, 2021-09-06;12(1):5270. 2021-09-06 [PMID: 34489413] (B/N)

Tang L, Xie L, Zhou H et al. Perillaldehyde mitigates ionizing radiation-induced intestinal injury by inhibiting ferroptosis via the Nrf2 signaling pathway Research Square 2023-03-06 (IHC-P)

Huang J, Bai Y, Xie W et al. Lyciumbarbarum polysaccharides ameliorate canine acute liver injury by reducing oxidative stress, protecting mitochondrial function, and regulating metabolic pathways Journal of Zhejiang University. Science. B 2023-02-15 [PMID: 36751701] (Canine)

Davis CK, Bathula S, Hsu M et al. An antioxidant and anti-ER stress combo therapy decreases inflammation, secondary brain damage and promotes neurological recovery following traumatic brain injury in mice The Journal of neuroscience : the official journal of the Society for Neuroscience 2022-07-25 [PMID: 35882557]

Toomey LM, Papini M, Lins B Et al. Cuprizone feed formulation influences the extent of demyelinating disease pathology Scientific reports 2021-11-19 [PMID: 34799634] (IF/IHC, Mouse)

Feng J, Li Y, Jin X Et al. ATF3 regulates oxidative stress and extracellular matrix degradation via p38/Nrf2 signaling pathway in pelvic organ prolapse Tissue & cell 2021-10-02 [PMID: 34666282] (ICC/IF, Human)

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### **Products Related to NB600-1508-50ul**

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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP3-00370	8-oxo-dG ELISA Kit (Colorimetric)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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