

Product Datasheet

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

Unit Size: 50 ul

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

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Publications: 19

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NB600-1508-50ul

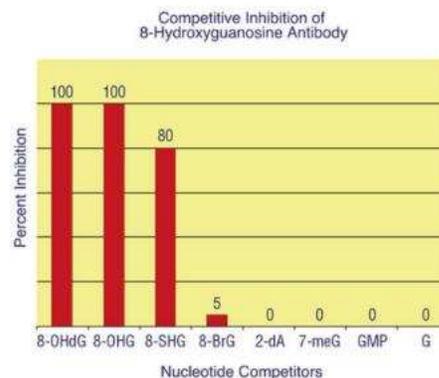
8-oxo-dG Antibody

Product Information	
Unit Size	50 ul
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Product Description	
Description	Novus Biologicals Goat 8-oxo-dG Antibody (NB600-1508) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-8-oxo-dG Antibody: Cited in 18 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Species	Human, Mouse
Reactivity Notes	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).
Specificity/Sensitivity	NB600-1508 cross reacts completely with 8-oxo-dG, and does not cross react with other naturally occurring nucleotides.
Immunogen	8-Hydroxy-2'-deoxyguanosine and 8-hydroxyguanosine.
Product Application Details	
Applications	Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	ELISA 1:100000-1:250000, Immunohistochemistry 1:200, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 1:200
Application Notes	<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%H₂O₂ 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 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]

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]

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 Villamuera, Maria Ana Gómez-Ferrería, Angel Pascual, Nicolas Buisine, Laurent M. Sachs, Rafael Garesse, Ana Aranda The thyroid hormone receptor β 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]

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)

More publications at <http://www.novusbio.com/NB600-1508>



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB600-1508-50ul

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)

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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