

Product Datasheet

4-Hydroxynonenal Antibody

NB100-63093

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-63093**4-Hydroxynonenal Antibody**

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Product Description	
Host	Goat
Species	Human, Mouse, All Species
Reactivity Notes	Human reactivity reported in multiple pieces of scientific literature. Mouse reactivity reported in multiple pieces of scientific literature.
Marker	Lipid Peroxidation Marker
Specificity/Sensitivity	NB100-63093 recognises 4-hydroxynonenal (HNE). This antiserum has been shown to be immunoreactive with 4-HNE-modified bovine serum albumin (BSA) by ELISA. Additionally, this antibody has been shown by ELISA to have minimum cross-reactivity with other aldehyde-BSA conjugates, making it highly specific for 4-HNE and capable of detecting proteins modified by HNE-adducts.
Immunogen	4-hydroxynonenal conjugate
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Knockout Validated
Recommended Dilutions	Western Blot 1:3000, ELISA 1:10000, Dot Blot, Knockout Validated
Application Notes	Use in KO reported in scientific literature (PMID:32727065) Use in Immunohistochemistry reported in scientific literature (PMID 27485360). Use in DB reported in scientific literature (PMID:33516914)

Publications

Liu, Y, Almeida, M Et al. Skeletal inflammation and attenuation of Wnt signaling, Wnt ligand expression, and bone formation in atherosclerotic ApoE-null mice. Am J Physiol Endocrinol Metab 2016-05-01 [PMID: 26956187] (WB, Mouse)

Lanzillotta C, Tramutola A, Di Giacomo G, et al. Insulin resistance, oxidative stress and mitochondrial defects in Ts65dn mice brain: a harmful synergistic path in Down syndrome Free radical biology & medicine 2021-01-28 [PMID: 33516914] (Cytometric Bead Assay Standard, Mouse)

Zuliani I, Lanzillotta C, Tramutola A et al. The Dysregulation of OGT/OGA Cycle Mediates Tau and APP Neuropathology in Down Syndrome Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics 2020-11-30 [PMID: 33258073] (Mouse)

Lanzillotta C, Zuliani I, Tramutola A et al. Chronic PERK induction promotes Alzheimer-like neuropathology in Down syndrome: Insights for therapeutic intervention Prog. Neurobiol. 2020-08-11 [PMID: 32795489] (WB, Human, Mouse)

Lanzillotta C, Zuliani I, Vasavda C et al. BVR-A Deficiency Leads to Autophagy Impairment through the Dysregulation of AMPK/mTOR Axis in the Brain-Implications for Neurodegeneration Antioxidants (Basel) 2020-07-27 [PMID: 32727065] (WB, KO, Mouse)

Protto V, Tramutola A, Fabiani M et al. Multiple Herpes Simplex Virus-1 (HSV-1) Reactivations Induce Protein Oxidative Damage in Mouse Brain: Novel Mechanisms for Alzheimer's Disease Progression Microorganisms 2020-06-29 [PMID: 32610629] (WB, Mouse)

Zuliani I, Urbinati C, et al. The Anti-Diabetic Drug Metformin Rescues Aberrant Mitochondrial Activity and Restrains Oxidative Stress in a Female Mouse Model of Rett Syndrome. J Clin Med 2020-06-01 [PMID: 32492904]

de Dios C, Bartolessis I, Roca-Agujetas V et al. Oxidative inactivation of amyloid beta-degrading proteases by cholesterol-enhanced mitochondrial stress Redox Biology 2019-09-01 [PMID: 31376793] (WB)

Di Domenico F, Tramutola A, Barone E et al. Restoration of aberrant mTOR signaling by intranasal rapamycin reduces oxidative damage: Focus on HNE-modified proteins in a mouse model of down syndrome Redox Biol 2019-03-09 [PMID: 30876754] (WB, Mouse)

Sharma N, Tramutola A, Lanzillotta C et al. Loss of biliverdin reductase-A favors Tau hyper-phosphorylation in Alzheimer's disease Neurobiol. Dis. 2019-05-01 [PMID: 30738142] (WB, Mouse)

Panisello-Rosello A, Alva N, Flores M et al. Aldehyde Dehydrogenase 2 (ALDH2) in Rat Fatty Liver Cold Ischemia Injury Int J Mol Sci 2018-08-22 [PMID: 30131474] (WB, Rat)

Barone E, Tramutola A, Triani F et al. Biliverdin Reductase-A Mediates the Beneficial Effects of Intranasal Insulin in Alzheimer Disease Mol. Neurobiol. 2018-08-02 [PMID: 30073505] (WB, Human)

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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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