

Product Datasheet

CYBB/NOX2 Antibody - BSA Free NBP2-41291

Unit Size: 0.1 mg

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

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NBP2-41291

CYBB/NOX2 Antibody - BSA Free

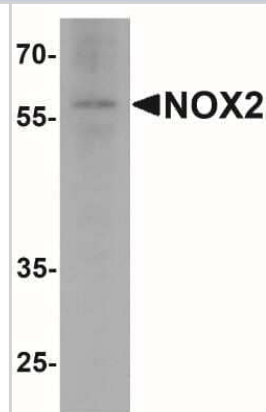
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	58 kDa

Product Description	
Host	Rabbit
Gene ID	1536
Gene Symbol	CYBB
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Porcine (87%), Bovine (87%)
Specificity/Sensitivity	At least two isoforms are known to exist; this antibody will detect both isoforms. NOX2 is predicted to not cross-react with other NOX proteins.
Immunogen	Antibody was raised against a 15 amino acid peptide near the amino terminus of human NOX2. The immunogen is located within amino acids 140 - 190 of NOX2. Amino Acid Sequence: NFARKRIKNPEGGLY

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA, Immunohistochemistry 2 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 2 ug/ml

Images

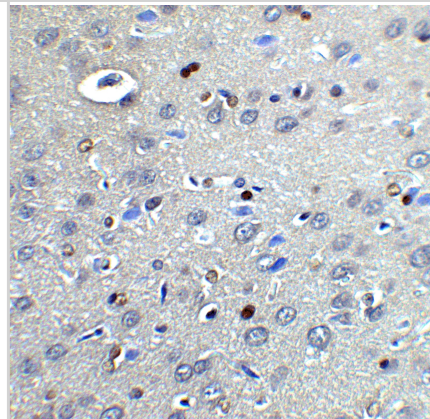
Western Blot: CYBB/NOX2 Antibody [NBP2-41291] - Analysis of NOX2 in rat brain tissue lysate with NOX2 antibody at 1 ug/ml.



Immunohistochemistry: CYBB/NOX2 Antibody [NBP2-41291] - NOX2 expression in mouse cerebral cortex. Dilution 1:1000. This image was submitted via customer Review.

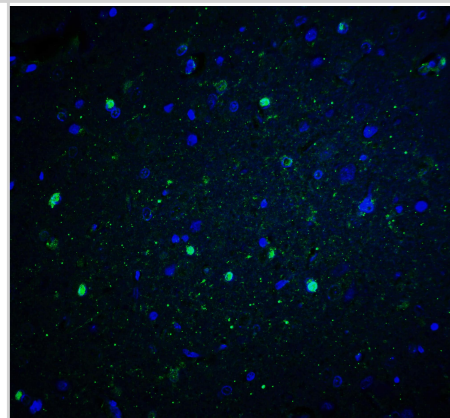


Immunohistochemistry: CYBB/NOX2 Antibody - BSA Free [NBP2-41291] - Immunohistochemistry of CYBB/NOX2 in rat brain tissue cells with CYBB/NOX2 antibody at 2 ug/ml.

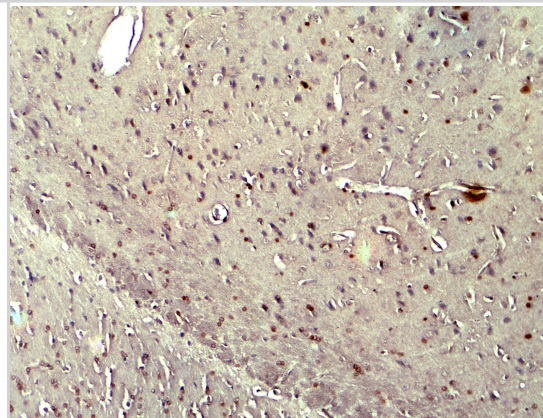


Immunocytochemistry/ Immunofluorescence: CYBB/NOX2 Antibody - BSA Free [NBP2-41291] - Immunofluorescence of CYBB/NOX2 in rat brain tissue with CYBB/NOX2 antibody at 20 u/ml.

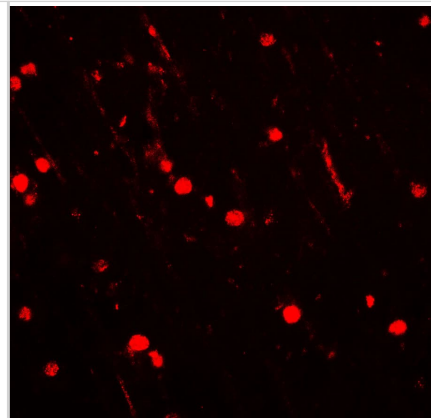
Green: CYBB/NOX2 Antibody
Blue: DAPI staining



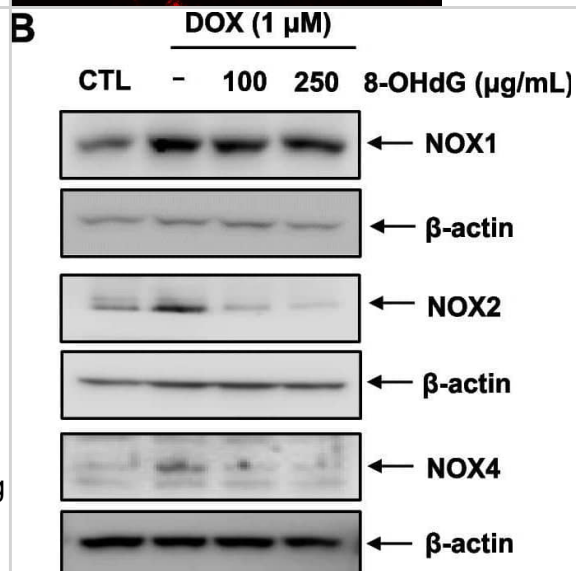
Immunohistochemistry: CYBB/NOX2 Antibody - BSA Free [NBP2-41291] - Immunohistochemistry of CYBB/NOX2 in rat brain tissue with CYBB/NOX2 antibody at 5 ug/ml.



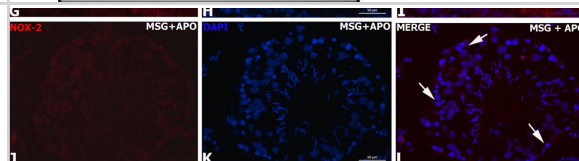
Immunocytochemistry/ Immunofluorescence: CYBB/NOX2 Antibody - BSA Free [NBP2-41291] - Immunofluorescence of CYBB/NOX2 in rat brain tissue with CYBB/NOX2 antibody at 20 ug/ml.



Exogenous 8-OHdG decreases NOX1/2/4 expression and NF- κ B phosphorylation, and increases the reduced glutathione/oxidized glutathione ratio in DOX-treated H9c2 cells. A Rac1 activation assay. After H9c2 cells were treated with DOX (1 μ M) and 8-OHdG (100 or 250 μ g/mL) for 1 h, cell lysates were precipitated by p21-activated protein kinase (PAK) p21-binding domain (PBD) agarose beads and immunoblotted by Rac1 specific monoclonal antibody. B–D H9c2 cells were treated with 1 μ M DOX and 100 μ g/mL or 250 μ g/mL 8-OHdG for 24 h. B–C Western blot analysis of the NOX1/2/4, p65, and phosphor-p65 protein levels of in DOX- and 8-OHdG-treated H9c2 cells. D GSH/GSSG ratio was determined using a glutathione assay kit. CTL, control; DOX, doxorubicin; 8-OHdG, 8-hydroxydeoxyguanosine; NOX, NADPH oxidase; GSH/GSSG, reduced glutathione/oxidized glutathione ratio. *P < 0.05 versus control; #P < 0.05 and ##P < 0.01 versus DOX-treated groups Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36517746>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunofluorescence analysis of NOX-2 in experimental groups (A–L). The nuclei were labeled with DAPI (blue). NOX-2 expression was similar in the control, APO, and MSG + APO groups. An increased number of NOX-2-positive cells (red) were observed in the MSG group. White arrows indicate NOX-2-positive cells. Scale bar: 50 μ m. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/2075-1729/13/3/822>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Jiang T, Zhang Y, Guo Z et al. Mechanical Stress Induced NOX2 Promotes Endothelial Dysfunction in Ventilator-Induced Lung Injury: Potential Treatment with Quercetin. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany) 2025-05-20 [PMID: 40391857]

Hwang S, Kim SH, Yoo KH et al. Exogenous 8-hydroxydeoxyguanosine attenuates doxorubicin-induced cardiotoxicity by decreasing pyroptosis in H9c2 cardiomyocytes *BMC molecular and cell biology* 2022-12-14 [PMID: 36517746] (Western Blot, Rat)

Blaise O, Duchesne C, Capuzzo E et al. Infected wound repair correlates with collagen I induction and NOX2 activation by cold atmospheric plasma *NPJ Regenerative Medicine* 2024-10-02 [PMID: 39358383]

Madhamanchi K, Madhamanchi P, Jayalakshmi S et al. Endoplasmic reticulum stress and unfolded protein accumulation correlate to seizure recurrence in focal cortical dysplasia patients *Cell stress & chaperones* 2022-10-18 [PMID: 36258150]

Acikel-Elmas M, Algilani SA, Sahin B et al. Apocynin Ameliorates Monosodium Glutamate Induced Testis Damage by Impaired Blood-Testis Barrier and Oxidative Stress Parameters *Life* (Basel, Switzerland) 2023-03-17 [PMID: 36983977] (IHC, Rat)

Sahin B, Acikel Elmas M, Bingol Ozakpinar O, Arbak S The Effects of Apocynin on Monosodium Glutamate Induced Liver Damage of Rats *Heliyon* 2023-07-01 [PMID: 37449146] (IHC, Mouse)

Peng L, Deng M, Huang Y et al. Scutellarin acts on the AR-NOX Axis to Remediate Oxidative Stress Injury in a Mouse Model of Cerebral Ischemia/Reperfusion Injury *Phytomedicine* 2022-06-11 [PMID: 35689902]

Cao L, Li X, Xu R et al. DUOX2, a common modulator in preventive effects of monoamine-based antidepressants on water immersion restraint stress- and indomethacin- induced gastric mucosal damage *European Journal of Pharmacology* 2020-03-01 [PMID: 32131022] (WB, Rat)

Bitar MS, Nader J, Al-Ali W et al. Hydrogen Sulfide Donor NaHS Improves Metabolism and Reduces Muscle Atrophy in Type 2 Diabetes: Implication for Understanding Sarcopenic Pathophysiology *Oxid Med Cell Longev* 2018-10-30 [PMID: 30510624] (WB, Rat)





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Products Related to NBP2-41291

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001536-Q01-10ug	Recombinant Human CYBB/NOX2 GST (N-Term) Protein

Limitations

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