BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-NOX2 CYBB Antibody

Catalog Number: A00328-1

About CYBB

The NOX family of NAPDH oxidases is comprised of seven transmembrane proteins that oxidize intracellular NAPDH/NADH, causing electron transport across the membrane and the reduction of molecular oxygen to superoxide (1). NOX2, also known as cytochrome b beta (CYBB) is one of two proteins that make up Cytochrome b-245, thought to be a primary component of the microbicidal oxidase system of phagocytes. NOX2 deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD) (2). Activation of the NOX2 enzyme complex in microglia is thought to be neurotoxic and may play a role in Alzheimer's and Parkinson's disease (3).

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Overview

Product Name	Anti-NOX2 CYBB Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NOX2 CYBB Antibody (Catalog # A00328-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	NOX2 antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	NOX2 antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	P04839

Technical Details

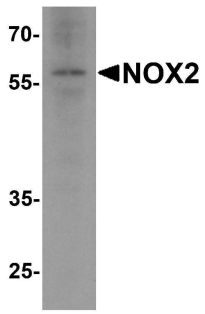
Immunogen	Rabbit polyclonal NOX2 antibody was raised against a 15 amino acid peptide near the amino terminus of human NOX2. The immunogen is located within amino acids 140 - 190 of NOX2.
Predicted Reactive Species	Bovine, Pig
Cross Reactivity	NOX2 antibody is human, mouse and rat reactive. At least two isoforms are known to exist; this antibody will detect both isoforms. NOX2 is predicted to not cross-react with other NOX proteins.

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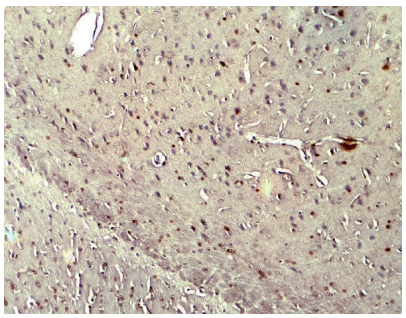
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	NOX2 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	NOX2 antibody can be used for detection of NOX2 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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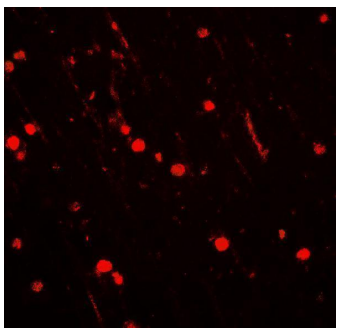
Anti-NOX2 CYBB Antibody (A00328-1) Images



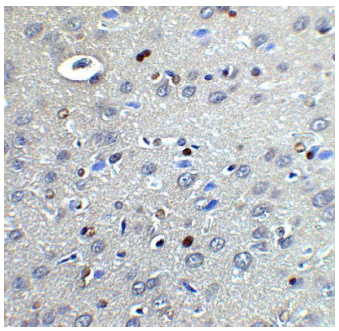
Western blot analysis of NOX2 in rat brain tissue lysate with NOX2 antibody at 1 ug/ml.



Immunohistochemistry of NOX2 in rat brain tissue with NOX2 antibody at 5 ug/ml.



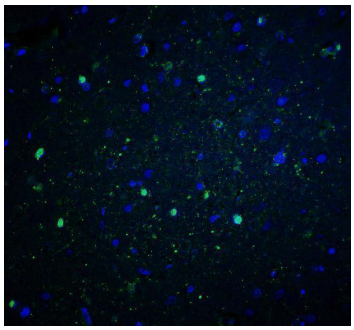
Immunofluorescence of NOX2 in rat brain tissue with NOX2 antibody at 20 ug/ml.



Immunohistochemistry of NOX2 in rat brain tissue cells with NOX2 antibody at 2 ug/ml.

Immunofluorescence of NOX2 in rat brain tissue with NOX2 antibody at 20 ug/ml.Green: NOX2 Antibody (A00328-1)
Blue: DAPI staining

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1 Publications Citing This Product

1. PubMed ID: 32112504, Zhou H,Wang H,Shi N,Wu F.Potential Protective Effects of the Water-Soluble Chinese Propolis on Hypertension Induced by High-Salt Intake. Clin Transl Sci.2020 Sep;13(5):907-915.doi:10.1111/cts.12770.Epub 2020 Apr 8.PMID:32112504.

Visit bosterbio.com/anti-nox2-cybb-antibody-a00328-1-boster.html to see all 1 publications.

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For Research Use Only. Not for use in diagnostic procedures.