

Datasheet for ABIN750688

anti-CYBB antibody (AA 501-570)**5** Images**6** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	CYBB
Binding Specificity:	AA 501-570
Reactivity:	Human, Mouse, Rat, Rabbit, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYBB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NOX2/gp91phox
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CYBB
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Target Details

Alternative Name:	NOX2/gp91phox (CYBB Products)
Background:	<p>Synonyms: CGD, NOX2, IMD34, AMCBX2, GP91-1, GP91PHOX, p91-PHOX, GP91-PHOX, Cytochrome b-245 heavy chain, CGD91-phox, Cytochrome b(558) subunit beta, Cytochrome b558 subunit beta, Heme-binding membrane glycoprotein gp91phox, NADPH oxidase 2, Neutrophil cytochrome b 91 kDa polypeptide, Superoxide-generating NADPH oxidase heavy chain subunit, p22 phagocyte B-cytochrome, CYBB</p> <p>Background: Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from cytoplasmic NADPH across the plasma membrane to molecular oxygen on the exterior. Also functions as a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes. It participates in the regulation of cellular pH and is blocked by zinc.</p>
Gene ID:	1536
UniProt:	P04839

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage: 4 °C, -20 °C

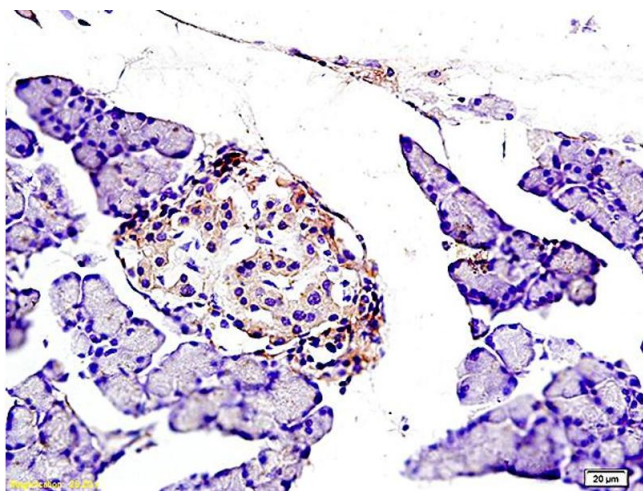
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

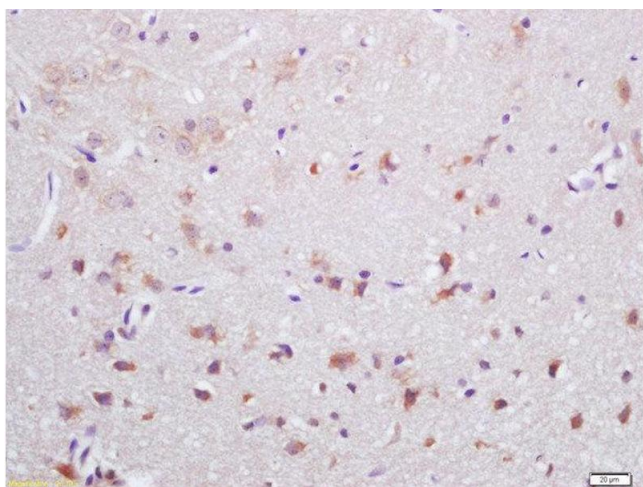
- Product cited in:
- Ye, Wu, Liu, Chen, Zhang, Lu, Zhou, Li, Zhang, Xia, Zhuang, Hang et al.: "Inhibition of leukotriene B4 synthesis protects against early brain injury possibly via reducing the neutrophil-generated inflammatory response and oxidative stress after subarachnoid hemorrhage in ..." in: **Behavioural brain research**, Vol. 339, pp. 19-27, (2017) ([PubMed](#)).
- Wakatsuki, Furuno, Ohshima, Araki: "Oxidative stress-dependent phosphorylation activates ZNRF1 to induce neuronal/axonal degeneration." in: **The Journal of cell biology**, Vol. 211, Issue 4, pp. 881-96, (2015) ([PubMed](#)).
- Kashiwabara, Ambe, Nakagawa, Watanabe: "Immunohistochemical localization of Nox in mouse circumvallate papillae." in: **Tissue & cell**, Vol. 47, Issue 6, pp. 550-8, (2015) ([PubMed](#)).
- Wang, Li, Cheng, Zhang, Narsinh, Li, Li, Qin, Zhang, Li, Su, Chen, Cao: "Activation of Liver X Receptor Improves Viability of Adipose-Derived Mesenchymal Stem Cells to Attenuate Myocardial Ischemia Injury Through TLR4/NF- κ B and Keap-1/Nrf-2 Signaling Pathways." in: **Antioxidants & redox signaling**, (2014) ([PubMed](#)).
- Dalaklioglu, Tasatargil, Kale, Tanriover, Dilmac, Erin: "Metastatic breast carcinoma induces vascular endothelial dysfunction in Balb-c mice: Role of the tumor necrosis factor- α and NADPH oxidase." in: **Vascular pharmacology**, Vol. 59, Issue 3-4, pp. 103-11, (2013) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



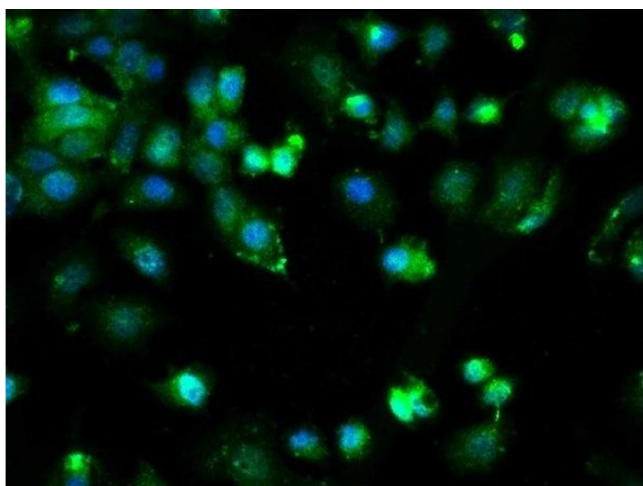
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat pancreas labeled with Anti NOX2/gp91phox Polyclonal Antibody, Unconjugated (ABIN750688) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti-NOX2/gp91phox Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Cultured Cells)

Image 3. Image provided by One World Lab validation program. MCF-7 cells probed with Rabbit Anti-NOX2/gp91phox Polyclonal Antibody at 1:50 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H+L) Alexa Fluor 488 Conjugated secondary antibody.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN750688.