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## Cytochrome b245 Light Chain Rabbit pAb

Catalog Number: bs-3879R

Target Protein: Cytochrome b245 Light Chain

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse (predicted:Rat)

Predicted MW: 21 kDa

Entrez Gene: 1535

Swiss Prot: P13498

Source: KLH conjugated synthetic peptide derived from human CK18 Cytochrome b245 Light Chain/p22phox: 21-120/195.

Purification: affinity purified by Protein A

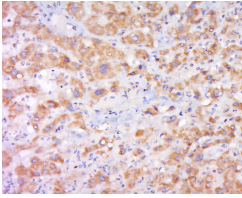
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

**Background:** Mox1 and the glycoprotein gp91-phox are largely related proteins that are essential components of the NADPH oxidase. The superoxide-generating NADPH oxidase is present in phagocytes, neuroepithelial bodies, vascular smooth muscle cells and endothelial cells. It includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane, where they associate with the flavocytochrome cytochrome b558 to form the active enzyme complex. The p22- and gp91-phox subunits also function as surface O<sub>2</sub> sensors that initiate cellular signaling in response to hypoxic conditions.

### VALIDATION IMAGES

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Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CYBA Polyclonal Antibody, Unconjugated(bs-3879R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=5.81] Xiaoyu Liu. et al. Geniposide Combined With Notoginsenoside R1 Attenuates Inflammation and Apoptosis in Atherosclerosis via the AMPK/mTOR/Nrf2 Signaling Pathway. Front Pharmacol. 2021; 12: 687394 WB ; Mouse, Human . 34305600

[IF=3.73] Walton, Noah M., et al. "Adult neurogenesis transiently generates oxidative stress." PloS one 7.4 (2012): e35264. IHC ; ="Mouse" . 22558133

[IF=3.8] Xin Guo. et al. Aspirin protects human trophoblast HTR-8/SVneo cells from H2O2-Induced oxidative stress via NADPH/ROS pathway. PLACENTA. 2023 Dec;144:55 WB ; Human . 37995441

[IF=2.99] Li, A., et al. "Arctigenin suppresses transforming growth factor- $\beta$ 1-induced expression of monocyte chemoattractant protein-1 and the subsequent epithelial-mesenchymal transition through reactive oxygen species-dependent ERK/NF- $\kappa$ B signaling pathway in renal tubular epithelial cells." Free Radical Research (2015): 1-19. Other ; =" " . 25968940

[IF=2.86] Yue, Long, et al. "Bletilla striata polysaccharide inhibits angiotensin II-induced ROS and inflammation via NOX4 and TLR2 pathways." International Journal of Biological Macromolecules (2016). WB ; ="Human" . 27151672