## Product datasheet Anti-NOX2/CYBB Antibody Catalog Number: A00328-3



**BOSTER BIOLOGICAL TECHNOLOGY** 

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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<b>Basic Inform</b>	nation	
Product Name	Anti-NOX2/CYBB Antibody	
Gene Name	СҮВВ	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human NOX2/gp91phox/CYBB recombinant protein (Position: E124-R559).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	65KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow cytometry (FCM): ELISA: (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,0 mins is required for the staining of formalin/paraffin section must be determined by end user.	

## **Storage**

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## **Background Information**

NOX2(NADPH OXIDASE 2), also called CYBB(CYTOCHROME b(-245), BETA SUBUNIT), p91-PHOX or GP91-1, is a human gene encoding a glycoprotein. NOX2 is an essential component of phagocytic NADPH-oxidase, a membrane-bound enzyme complex that generates large quantities of microbicidal superoxide and other oxidants upon activation. It is mapped on Xp11.4. NOX2 assembled on DC phagosomes in a gp91-phox subunit-dependent manner, and that reactive oxygen species were produced in a more sustained manner in immature DC phagosomes than in macrophage phagosomes. As a major player in innate immune responses in neutrophils, NOX2 is also involved in adaptive immunity through its activity in DCs. In heart cells, physiologic stretch rapidly activates reduced-form NOX2 to produce reactive oxygen species (ROS) in a process dependent on microtubules (X-ROS signaling).



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## **Selected Validation Data**

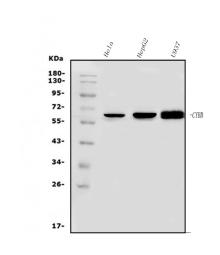


Figure 1. Western blot analysis of anti- CYBB antibody (A00328-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HELA whole cell lysates, Lane 2: human HEPG2 whole cell lysates, Lane 3: human U937 whole cell lysates. Use rabbit anti- CYBB 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CYBB at approximately 65KD. The expected band size for CYBB at 65KD.