

Basic Information

Product Name	Anti-NOX2/CYBB Antibody
Gene Name	CYBB
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human NOX2/gp91phox/CYBB recombinant protein (Position: F416-H527).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow cytometry (FCM):1-3μg/1x10 ⁶ cells ELISA: 1:100-1000

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).

Selected Validation Data

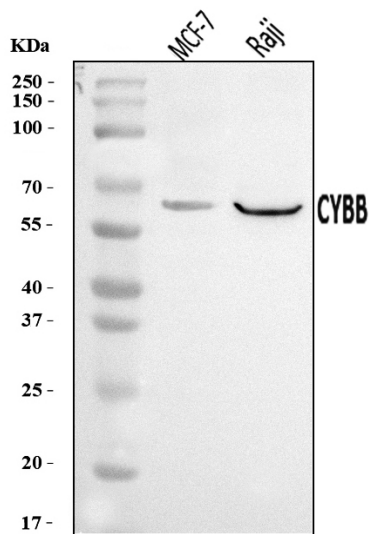


Figure 1. Western blot analysis of anti-CYBB Antibody

(A00328-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: MCF-7 whole cell lysates,

Lane 2: Raji 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 is at 65KD.