



NOX2 Rabbit mAb

Catalog No	YP-rAb-18102
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,ELISA,IF
Gene Name	CYBB
Protein Name	Cytochrome b-245 heavy chain
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CYBB ; NOX2 ; Cytochrome b-245 heavy chain ; CGD91-phox ; Cytochrome b ; 558 ; subunit beta ; Cytochrome b558 subunit beta ; Heme-binding membrane glycoprotein gp91phox ; NADPH oxidase 2Neutrophil cytochrome b 91 kDa polypeptide ; Superoxide-generating NADPH oxidase heavy chain subunit ; gp91-1 ; gp91-phox ; p22 phagocyte B-cytochrome
Observed Band	65kD
Calculated Molecular Weight	65kD
Cell Pathway	Membranous
Tissue Specificity	Detected in neutrophils (at protein level).
Function	cofactor:FAD.,Disease:Defects in CYBB are a cause of chronic granulomatous disease X-linked (XCGD) [MIM:306400]. Chronic granulomatous disease is a genetically heterogeneous disorder characterized by the inability of neutrophils and phagocytes to kill microbes that they have ingested. Patients suffer from life-threatening bacterial/fungal infections.,Function: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.,online information:CYBB deficiency database,PTM:Glycosylated.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 ferric oxidoreductase domain.,subunit:Composed of a heavy chain (beta) and a light chain (alpha).,

Background

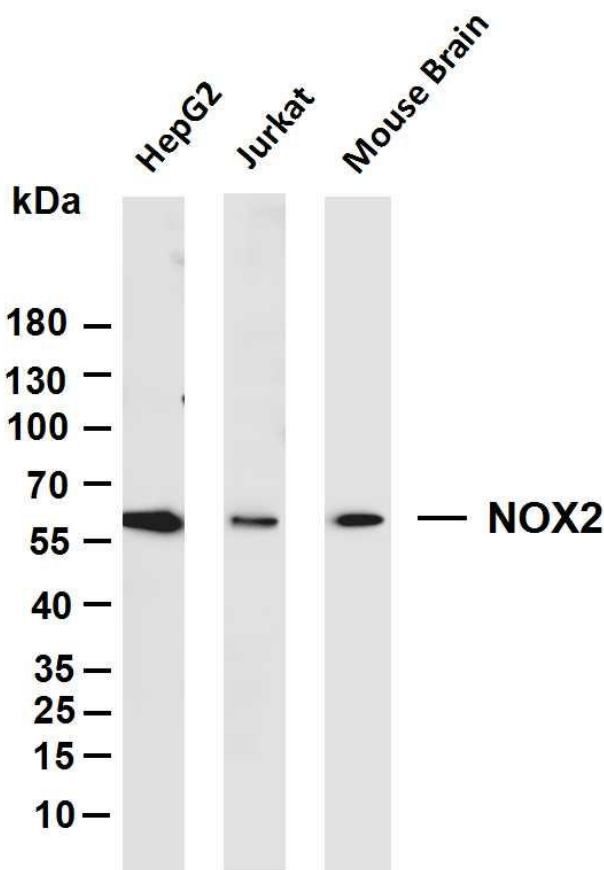
Cytochrome b (-245) is composed of cytochrome b alpha (CYBA) and beta (CYBB) chain. It has been proposed as a primary component of the microbicidal oxidase system of phagocytes. CYBB deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD). In this disorder, there is decreased activity of phagocyte NADPH oxidase; neutrophils are able to phagocytize bacteria but cannot kill them in the phagocytic vacuoles. The cause of the killing defect is an inability to increase the cell's respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole. [provided by RefSeq, Jul 2008],

matters needing attention

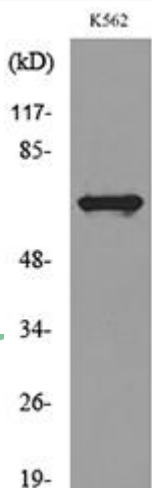
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NOX2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: Jurkat Lane 3: Mouse Brain Predicted band size: 65kDa Observed band size: 65kDa



Western blot analysis of lysate from K562 cells, using CYBB Antibody.

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宏基因组、转录组、基因组、蛋白组、代谢组测序

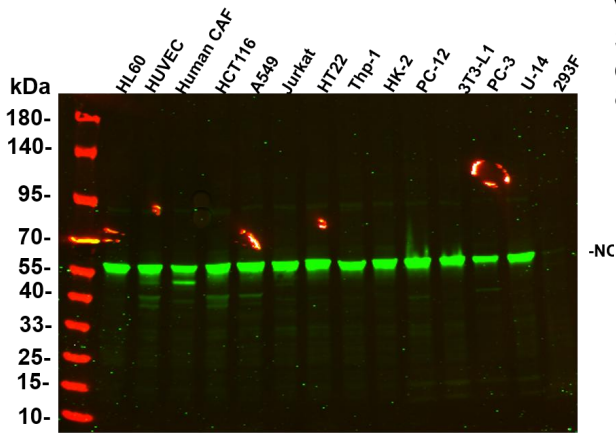
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宏基因组、转录组、基因组、蛋白组、代谢组测序



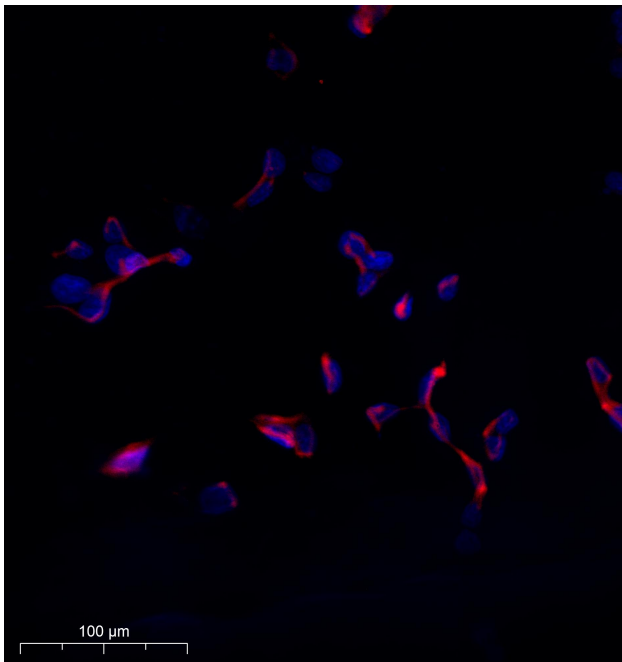
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Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody



Immunofluorescence analysis of MCF7 cell. 1, primary Antibody was diluted at 1:100 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AF594 Secondary antibody (catalog No: RS3611) was diluted at 1:500 (room temperature, 50min).

