

NOX2 (PT0125R) PT™ Rabbit mAb

CatalogNo: YM8068 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA, IF

MW

- 65kD (Calculated)
65kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:1000-5000

IF 1:200-1000

ELISA 1:5000-20000

Basic Information

Clonality Monoclonal

Clone Number PT0125R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Endogenous

Target Information

Gene name CYBB

Protein Name Cytochrome b-245 heavy chain

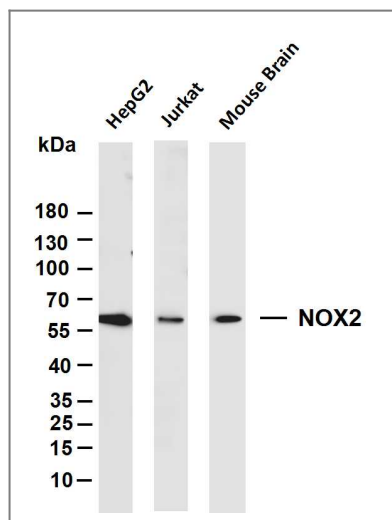
| Organism | Gene ID | UniProt ID |
|----------|------------------------|--------------------------|
| Human | 1536 ; | P04839 ; |
| Mouse | | Q61093 ; |

Cellular Localization Membranous

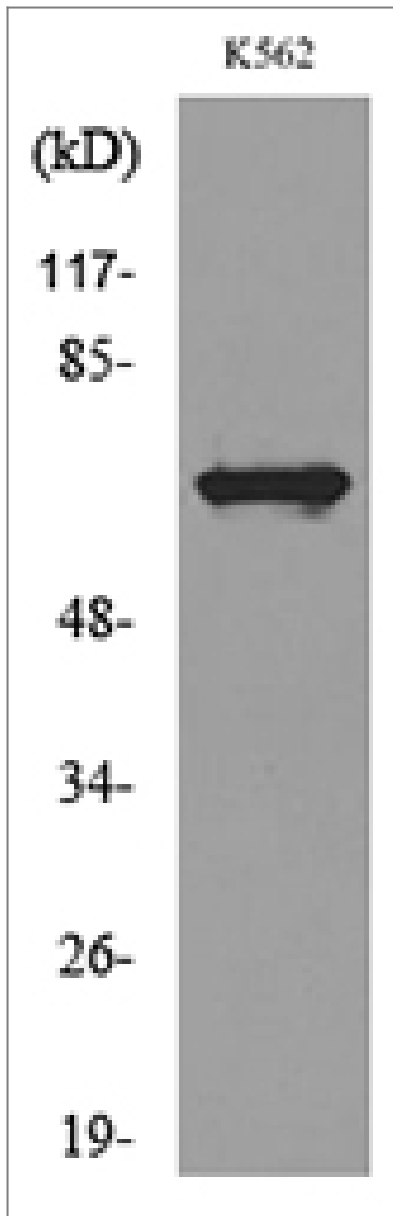
Tissue specificity Detected in neutrophils (at protein level) .

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) . ,

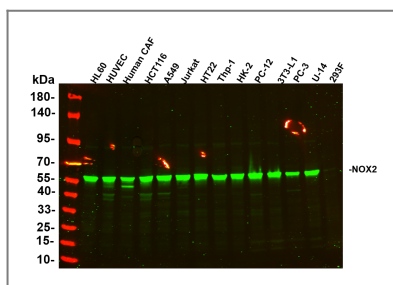
Validation Data



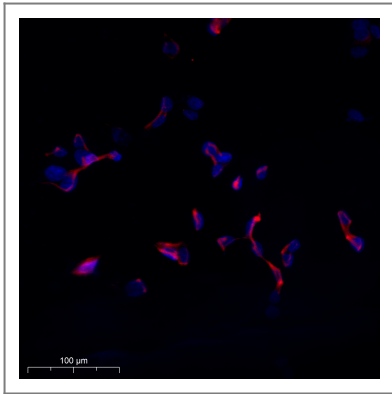
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NOX2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: Jurkat Lane 3: Mouse Brain Predicted band size: 65kDa Observed band size: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



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



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 (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 65kDa Observed band size: 65kDa



Immunofluorescence analysis of MCF7 cell. 1, primary Antibody was diluted at 1:100 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFuor 594 Secondary antibody (catalog No: RS3611) was diluted at 1:500 (room temperature, 50min).

Contact information

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PT™ Rabbit mAb

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