Anti-NOX2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014762

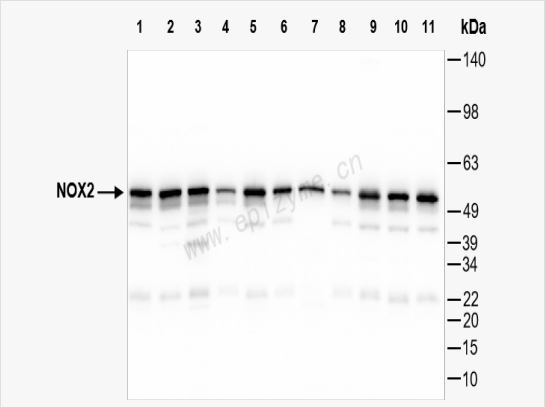
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	14H93H81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NOX2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-NOX2 Rabbit mAb [14H93H81] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AMCBX2, CGD, CGD91-phox, CY24B_HUMAN, CYBB, Cytochrome b 245, beta polypeptide, Cytochrome b(558) beta chain, Cytochrome b(558) subunit beta, Cytochrome b-245 heavy chain, Cytochrome b558 subunit beta, GP91 PHOX, gp91-1, gp91-phox, GP91PHOX, Heme-binding membrane glycoprotein gp91phox, NADPH oxidase 2, Neutrophil cytochrome b 91 kDa polypeptide, NOX2, p22 phagocyte B-cytochrome, P91 PHOX, p91-PHOX, Superoxide-generating NADPH oxidase heavy chain subunit.
Calculated MW	Calculated MW: 65 kDa; Observed MW: 55 kDa
Uniprot ID	P04839
Gene ID	1536
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]
Cellular Location	Membrane.

Validation Images



Western Blot - Anti-NOX2 Rabbit mAb [14H93H81]
All lanes: R014762 at 1:3,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7: 293T (Human embryonic kidney cell) whole cell lysates
Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane10: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 65 kDa
Observed band size: 55 kDa
Developed using the ECL technique (Cat. No. SQ201).