NOX2/gp91phox Rabbit mAb

Catalog No: #49057

Package Size: #49057-1 50ul #49057-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

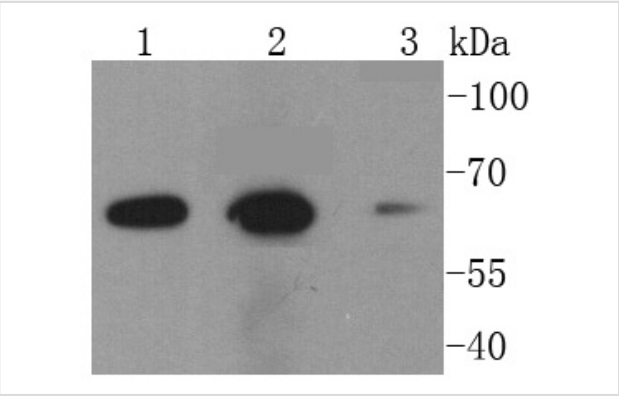
Description

Product Name	NOX2/gp91phox Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SN07-16
Purification	ProA affinity purified
Applications	WB
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	AMCBX2 antibody CGD antibody CGD91-phox antibody CY24B_HUMAN antibody CYBB antibody Cytochrome b 245, beta polypeptide antibody Cytochrome b(558) beta chain antibody Cytochrome b(558) subunit beta antibody Cytochrome b-245 heavy chain antibody Cytochrome b558 subunit beta antibody GP91 PHOX antibody gp91-1 antibody gp91-phox antibody GP91PHOX antibody Heme-binding membrane glycoprotein gp91phox antibody NADPH oxidase 2 antibody Neutrophil cytochrome b 91 kDa polypeptide antibody NOX2 antibody p22 phagocyte B-cytochrome antibody P91 PHOX antibody p91-PHOX antibody Superoxide-generating NADPH oxidase heavy chain subunit antibody
Accession No.	Swiss-Prot#:P04839
Uniprot	P04839
GeneID	1536;
Calculated MW	65 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000

Images



Western blot analysis of NOX2 on different lysates using anti-NOX2 antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7 Lane 2: THP-1 Lane 3: HepG2

Background

Mox1 and the glycoprotein gp91-phox are largely related proteins that are essential components of the NADPH oxidase. The superoxide-generating NADPH oxidase is present in phagocytes, neuroepithelial bodies, vascular smooth muscle cells and endothelial cells. It includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane, where they associate with the flavocytochrome cytochrome b558 to form the active enzyme complex. The p22- and gp91-phox subunits also function as surface O2 sensors that initiate cellular signaling in response to hypoxic conditions. Mox1 and gp91 contain identical C-terminal sequence identity, yet they have distinct expression patterns. gp91-phox is expressed in eosinophils, neutro-phils, monocytes and B-lymphocytes, whereas Mox1 is predominantly detected in the colon, and low expression is also detected in the uterus and prostate. Mox1 is also upregulated in vascular smooth-muscle cells in response to PDGF stimulation, which collectively indicates that Mox1 may function analogously to gp91-phox, yet regulate the NADPH superoxide production in non-phagocytic cells.

References

Note: This product is for in vitro research use only