

## Rabbit Anti-NOX2 antibody

SLM-52603R

<b>Product Name</b>	NOX2
<b>Chinese Name</b>	NOX2Recombinant rabbit monoclonal anti 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;
<b>Alias</b>	GP91 PHOX; gp91-1; gp91-phox; GP91PHOX; Heme-binding membrane glycoprotein gp91phox; NADPH oxidase 2; Neutrophil cytochrome b 91 kDa polypeptide; p22 phagocyte B-cytochrome; P91 PHOX; p91-PHOX; Superoxide-generating NADPH oxidase heavy chain subunit.
<b>Research Area</b>	Tumour Cell biology immunology
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Clone NO.</b>	9B12
<b>React Species</b>	Human, (predicted: Mouse, Rat, ) WB=1:1000-5000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	65kDa
<b>Cellular localization</b>	The cell membrane
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	Recombinant human NOX2: 150-250/570
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks
<b>Storage</b>	

at 2-4 °C.

**Attention**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

NOX2/gp91phox is a 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. It 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. Defects in CYBB are a cause of X-linked chronic granulomatous disease (X-CGD). X-CGD is characterized by the failure of activated phagocytes to generate superoxide. 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. Subcellular Location : Membrane.

**Product Detail**

**Post-translational modifications:**

Glycosylated.

**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.

**Similarity:**

Contains 1 FAD-binding FR-type domain.

Contains 1 ferric oxidoreductase domain.

**SWISS:**

P04839

**Gene ID:**

1536

**Database links:**

[Entrez Gene: 281112](#) Cow

[Entrez Gene: 1536](#) Human

[Entrez Gene: 13058](#) Mouse

[Entrez Gene: 100008801](#) Rabbit

[Entrez Gene: 66021](#) Rat

[Omim: 300481](#) Human

[SwissProt: O46522](#) Cow

[SwissProt: P04839](#) Human

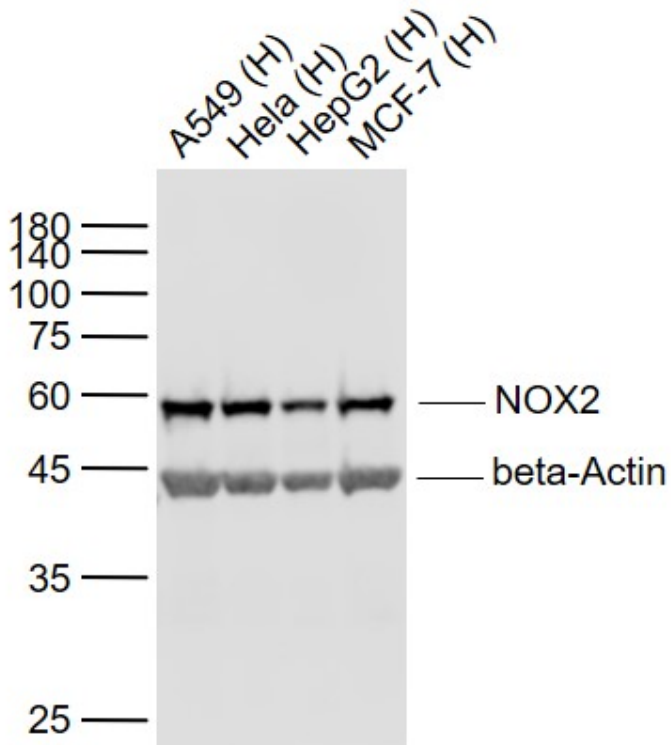
[SwissProt: Q61093](#) Mouse

[Unigene: 292356](#) Human

[Unigene: 200362](#) Mouse

NOX2 也是一个很重要的产生氧自由基的酶。主要存在于甲状腺,前列腺,唾液腺和直肠粘膜中。

**Product Picture**



**Sample:**

Lane 1: A549 (Human) Cell Lysate at 30 ug

Lane 2: HeLa (Human) Cell Lysate at 30 ug

Lane 3: HepG2 (Human) Cell Lysate at 30 ug

Lane 4: MCF-7 (Human) Cell Lysate at 30 ug

**Primary:**

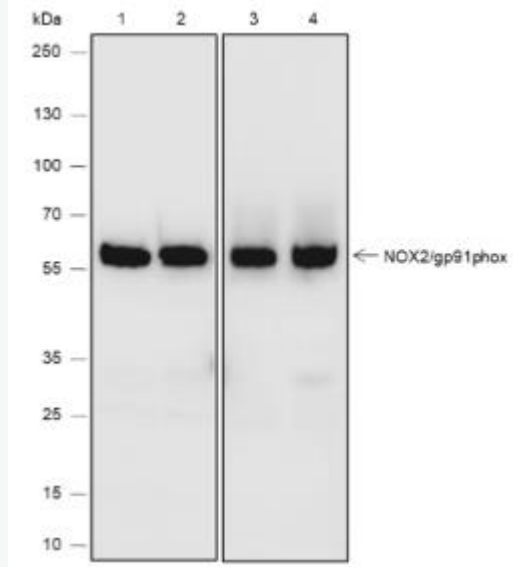
Anti- NOX2 (SLM-52603R) at 1/1000 dilution

Anti-beta-Actin (SL0061R) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58-65 kD

Observed band size: 58 kD



Blocking buffer: 5% NFDM/TBST

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 2 hours at  
room temperature

Secondary Ab: Goat Anti-Rabbit IgG H&L  
(HRP)

Lysate: 1: HepG2, 2: MCF-7, 3: Mouse spleen,  
4: Rat spleen

Protein loading quantity: 20  $\mu$ g

Exposure time: 30 s

Predicted MW: 65 kDa



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Observed MW: 60 kDa