

## Rabbit Anti-NOX2/AP Conjugated antibody

SL3889R-AP

<b>Product Name</b>	Anti-NOX2/AP
<b>Chinese Name</b>	碱性磷酸酶 (AP) 标记的 NADPH 氧化酶 2 抗体
<b>Alias</b>	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; 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>	Polyclonal
<b>React Species</b>	Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	65kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human NOX2
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</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 at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> 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.

**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.

**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

**Important Note:**

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

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。