

**Goat anti-GP91-PHOX / NOX2 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4526a****Specification**

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**Goat anti-GP91-PHOX / NOX2 Antibody - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P04839</a>
Other Accession	<a href="#">NP_000388.2</a>
Reactivity	<b>Human, Mouse, Rat, Pig, Dog, Bovine</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>65336</b>

**Goat anti-GP91-PHOX / NOX2 Antibody - Additional Information****Gene ID** 1536**Other Names**

CYBB; cytochrome b-245, beta polypeptide; CGD; GP91-1; GP91-PHOX; GP91PHOX; NOX2; p91-PHOX; CGD91-phox; NADPH oxidase 2; cytochrome b(558) subunit beta; cytochrome b-245 heavy chain; cytochrome b558 subunit beta; heme-binding membrane glycoprotein gp91pho

**Dilution**

WB~~1:1000  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-GP91-PHOX / NOX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-GP91-PHOX / NOX2 Antibody - Protein Information****Name** CYBB ([HGNC:2578](#))**Synonyms** NOX2**Function**

Catalytic subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons

from cytosolic NADPH to O<sub>2</sub> to produce the superoxide anion (O<sub>2</sub><sup>-</sup>) (PubMed:<a href="http://www.uniprot.org/citations/15338276" target="\_blank">15338276</a>, PubMed:<a href="http://www.uniprot.org/citations/36241643" target="\_blank">36241643</a>, PubMed:<a href="http://www.uniprot.org/citations/36413210" target="\_blank">36413210</a>, PubMed:<a href="http://www.uniprot.org/citations/38355798" target="\_blank">38355798</a>). In the activated complex, electrons are first transferred from NADPH to flavin adenine dinucleotide (FAD) and subsequently transferred via two heme molecules to molecular oxygen, producing superoxide through an outer-sphere reaction (Probable) (PubMed:<a href="http://www.uniprot.org/citations/38355798" target="\_blank">38355798</a>). Activation of the NADPH oxidase complex is initiated by the assembly of cytosolic subunits of the NADPH oxidase complex with the core NADPH oxidase complex to form a complex at the plasma membrane or phagosomal membrane (PubMed:<a href="http://www.uniprot.org/citations/19028840" target="\_blank">19028840</a>, PubMed:<a href="http://www.uniprot.org/citations/38355798" target="\_blank">38355798</a>). This activation process is initiated by phosphorylation dependent binding of the cytosolic NCF1/p47-phox subunit to the C-terminus of CYBA/p22-phox (By similarity). NADPH oxidase complex assembly is impaired through interaction with NRROS (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein. Note=As unassembled monomer may localize to the endoplasmic reticulum

#### **Tissue Location**

Detected in neutrophils (at protein level).

### **Goat anti-GP91-PHOX / NOX2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Goat anti-GP91-PHOX / NOX2 Antibody - Images**