

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

Specification

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

Application	WB, Pep-ELISA
Primary Accession	P04839
Other Accession	NP_000388.2
Reactivity	Human, Mouse, Rat, Pig, Dog, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	65336

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

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 O₂ to produce the superoxide anion (O₂⁻) (PubMed:15338276, PubMed:36241643, PubMed:36413210, PubMed:<a

<http://www.uniprot.org/citations/38355798> target="_blank">38355798). 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:38355798). 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:19028840, PubMed:38355798). 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