

CYBB Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15883**Specification**

CYBB Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	P04839
Other Accession	NM_000397 , NP_000388
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62kDa KDa

CYBB Antibody - C-terminal region - Additional Information**Gene ID** 1536**Alias Symbol** **AMCBX2, CGD, GP91-1, GP91-PHOX, GP91PHOX, NOX2, p91-PHOX****Other Names**

Cytochrome b-245 heavy chain, 1.-.-., CGD91-phox, Cytochrome b(558) subunit beta, Cytochrome b558 subunit beta, Heme-binding membrane glycoprotein gp91phox, NADPH oxidase 2, Neutrophil cytochrome b 91 kDa polypeptide, Superoxide-generating NADPH oxidase heavy chain subunit, gp91-1, gp91-phox, p22 phagocyte B-cytochrome, CYBB, NOX2

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 μ l of distilled water. Final Anti-CYBB antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

CYBB Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CYBB Antibody - C-terminal region - 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: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

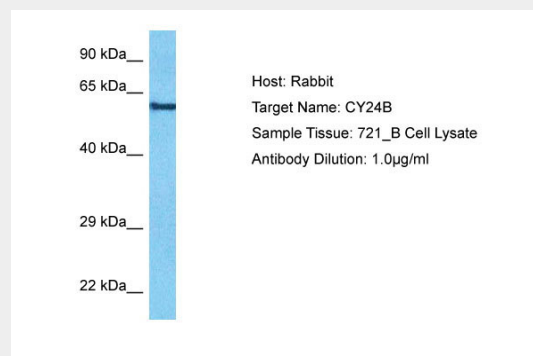
Detected in neutrophils (at protein level).

CYBB Antibody - C-terminal region - 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](#)

CYBB Antibody - C-terminal region - Images



Host: Rabbit
Target Name: CY24B

Sample Tissue: 721_B Whole Cell lysates
Antibody Dilution: 1µg/ml

CYBB Antibody - C-terminal region - Background

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.

CYBB Antibody - C-terminal region - References

Royer-Pokora B., et al. Nature 322:32-38(1986).
Jirapongsananuruk O., et al. Clin. Immunol. 104:73-76(2002).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Dinauer M.C., et al. Nature 327:717-720(1987).