

## ARG64944 anti-NOX2 / gp91phox antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes NOX2 / gp91phox
Tested Reactivity	Hu
Predict Reactivity	Dog
Tested Application	IHC-P
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NOX2 / gp91phox
Species	Human
Immunogen	C-SYLNFAKRIKNP
Conjugation	Un-conjugated
Alternate Names	Neutrophil cytochrome b 91 kDa polypeptide; gp91-phox; NADPH oxidase 2; Heme-binding membrane glycoprotein gp91phox; 558; CGD91-phox; gp91-1; EC 1.-.-.-; Cytochrome b; GP91-1; IMD34; CGD; GP91-PHOX; AMCBX2; GP91PHOX; NOX2; Cytochrome b-245 heavy chain; p22 phagocyte B-cytochrome; p91-PHOX; Superoxide-generating NADPH oxidase heavy chain subunit; Cytochrome b558 subunit beta

### Application Instructions

Application table	Application	Dilution
	IHC-P	1 - 2 µg/ml

**Application Note** IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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#### Database links

[GeneID: 1536 Human](#)

[Swiss-port # P04839 Human](#)

#### Background

Cytochrome b (-245) is composed of cytochrome b alpha (CYBA) and beta (CYBB) chain. It has been proposed as a primary component of the microbicidal oxidase system of phagocytes. CYBB deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD). In this disorder, there is decreased activity of phagocyte NADPH oxidase; neutrophils are able to phagocytize bacteria but cannot kill them in the phagocytic vacuoles. The cause of the killing defect is an inability to increase the cell's respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole. [provided by RefSeq, Jul 2008]

#### Research Area

Cancer antibody; Immune System antibody; Metabolism antibody

#### Calculated Mw

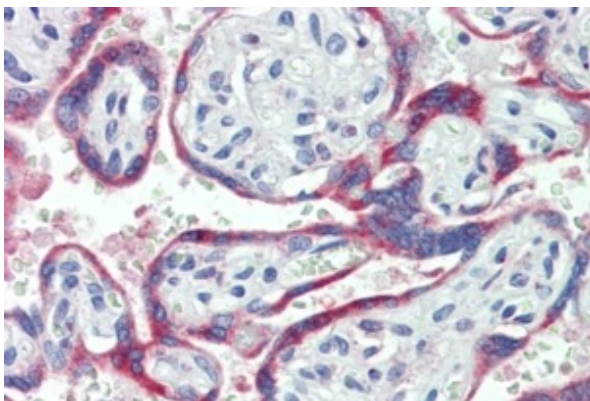
65 kDa

#### PTM

Glycosylated.  
Phosphorylated on Ser and Thr residues.

## Images

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ARG64944 anti-NOX2 / gp91phox antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64944 anti-NOX2 / gp91phox antibody at 3.8 µg/ml dilution followed by AP-staining.