

# NOX3 polyclonal antibody

Catalog # PAB16020      Size 100 ug

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NOX3.
Immunogen	A synthetic peptide corresponding to C-terminus of human NOX3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	ELISA (1:2000-1:5000) Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (50% glycerol, 0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

## Gene Info — NOX3

Entrez GeneID	<a href="#">50508</a>
Gene Name	NOX3

Gene Alias	GP91-3
Gene Description	NADPH oxidase 3
Omim ID	<a href="#">607105</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene encodes a member of the NOX family of NADPH oxidases. These enzymes have the capacity to generate superoxide and other reactive oxygen species (ROS) and transport electrons across the plasma membrane. The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranslational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otoliths, which are crystalline structures of the inner ear involved in the perception of gravity
Other Designations	NADPH oxidase catalytic subunit-like 3 OTTHUMP00000017475

## Publication Reference

- [Implication of NADPH oxidases in the early inflammation process generated by cystic fibrosis cells.](#)

Pongnimitprasert N, Hurtado M, Lamari F, El Benna J, Dupuy C, Fay M, Foglietti MJ, Bernard M, Gougerot-Pocidal MA, Braut-Boucher F.

ISRN Inflammation 2012 Jul; 2012:481432.

Application: WB-Ce, Human, NCI-H292 cells

- [The NADPH oxidase Nox3 constitutively produces superoxide in a p22phox-dependent manner: its regulation by oxidase organizers and activators.](#)

Ueno N, Takeya R, Miyano K, Kikuchi H, Sumimoto H.

The Journal of Biological Chemistry 2005 Jun; 280(24):23328.

- [Nox3 regulation by NOXO1, p47phox, and p67phox.](#)

Cheng G, Ritsick D, Lambeth JD.

The Journal of Biological Chemistry 2004 Aug; 279(33):34250.

- [Homologs of gp91phox: cloning and tissue expression of Nox3, Nox4, and Nox5.](#)

Cheng G, Cao Z, Xu X, van Meir EG, Lambeth JD.

Gene 2001 May; 269(1-2):131.

## Pathway

- [Leukocyte transendothelial migration](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypersensitivity](#)