

**NOX5 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13968b****Specification**

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**NOX5 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q96PH1](#)**NOX5 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 79400**Other Names**

NADPH oxidase 5, 163-, NOX5

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13968b was selected from the C-term region of NOX5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NOX5 Antibody (C-term) Blocking peptide - Protein Information****Name** NOX5**Function**

Calcium-dependent NADPH oxidase that catalyzes the generation of superoxide from molecular oxygen utilizing NADPH as an electron donor (PubMed:<a href="http://www.uniprot.org/citations/12686516" target="\_blank">12686516</a>). May play a role in cell growth and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/12686516" target="\_blank">12686516</a>).

**Cellular Location**

[Isoform v2]: Endoplasmic reticulum. Cell membrane; Multi-pass membrane protein. Note=Calcium-sensitive association and dissociation between the N- and C-terminal domains appears to facilitate its localization to the cell membrane

**Tissue Location**

Mainly expressed in pachytene spermatocytes of testis and in lymphocyte-rich areas of spleen and

lymph nodes. Also detected in ovary, placenta, pancreas, cardiac fibroblasts. Expressed in B-cells and prostate malignant cells. [Isoform v2]: Expressed in microvascular endothelial cells (at protein level) (PubMed:17275676). Expressed in testis (PubMed:11483596). Expressed in endothelial cells and pulmonary artery smooth muscle cells (PubMed:17275676, PubMed:22427510) [Isoform v4]: Expressed in endothelial cells and pulmonary artery smooth muscle cells.

### **NOX5 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **NOX5 Antibody (C-term) Blocking peptide - Images**

### **NOX5 Antibody (C-term) Blocking peptide - Background**

Calcium-dependent NADPH oxidase that generates superoxide. Also functions as a calcium-dependent proton channel and may regulate redox-dependent processes in lymphocytes and spermatozoa. May play a role in cell growth and apoptosis.