

## NOX5 Antibody (internal region)

Peptide-affinity purified goat antibody Catalog # AF3416a

### **Specification**

## NOX5 Antibody (internal region) - Product Information

Application WB
Primary Accession Q96PH1

Other Accession NP 078781.3, NP 001171708.1,

NP 001171709.1, 79400

Reactivity
Predicted
Pog, Cow
Host
Clonality
Polyclonal
Concentration
Isotype
Calculated MW
Human
Dog, Cow
Host
Goat
Polyclonal
0.5 mg/ml
IgG
86439

## NOX5 Antibody (internal region) - Additional Information

**Gene ID 79400** 

#### **Other Names**

NADPH oxidase 5, 1.6.3.-, NOX5

#### **Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

### **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**

NOX5 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### NOX5 Antibody (internal region) - 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**

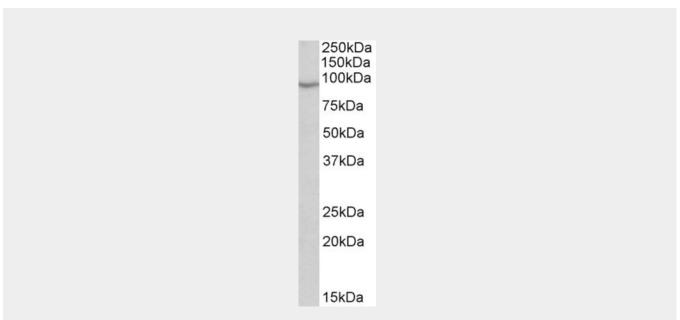
Mainly expressed in pachytene spermatocytes of testis and in lymphocyte-rich areas of spleen and lymph nodes. Also detected in ovary, placenta, pancreas, cardiac fibroblasts. Expressed in B-cells and prostate malignant cells. [Isoform v2]: Expressed in microvascular endothelial cells (at protein level) (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 (internal 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 Cytomety
- Cell Culture

### NOX5 Antibody (internal region) - Images



AF3416a (0.5  $\mu$ g/ml) staining of Human Testis lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### NOX5 Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP\_078781.3; NP\_001171708.1; NP\_001171709.1).

### NOX5 Antibody (internal region) - References





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Sphingosylphosphorylcholine down-regulates filaggrin gene transcription through NOX5-based NADPH oxidase and cyclooxygenase-2 in human keratinocytes. Choi H, Kim S, Kim HJ, Kim KM, Lee CH, Shin JH, Noh M, Biochemical pharmacology 2010 Jul 80 (1): 95-103. PMID: 20230798