

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	Human
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	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:[12686516](http://www.uniprot.org/citations/12686516)). May play a role in cell growth and apoptosis (PubMed:[12686516](http://www.uniprot.org/citations/12686516)).

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 Cytometry](#)
- [Cell Culture](#)

NOX5 Antibody (internal region) - Images

AF3416a (0.5 µg/ml) staining of Human Testis lysate (35 µg 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

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