

ARG40170 anti-NOX5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NOX5
Tested Reactivity	Hu
Predict Reactivity	Cow, Dog
Tested Application	ICC/IF, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NOX5
Species	Human
Immunogen	Synthetic peptide around the internal region of Human NOX5. (C-EWHPFTISSAPEQKD, NP_078781.3; NP_001171708.1; NP_001171709.1)
Conjugation	Un-conjugated
Alternate Names	NADPH oxidase 5; EC 1.6.3.-

Application Instructions

Application table	Application	Dilution
	ICC/IF	10 µg/ml
	WB	0.5 - 2 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified
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.

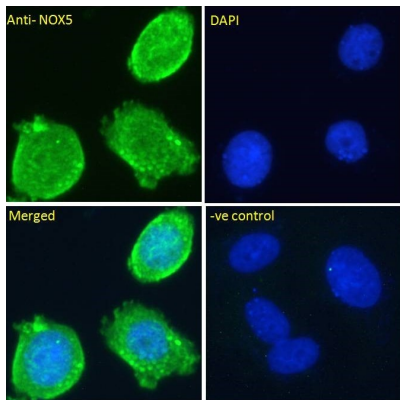
Note

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

Bioinformation

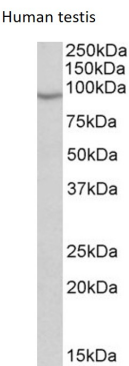
Gene Symbol	NOX5
Gene Full Name	NADPH oxidase, EF-hand calcium binding domain 5
Background	This gene is predominantly expressed in the testis and lymphocyte-rich areas of spleen and lymph nodes. It encodes a calcium-dependen NADPH oxidase that generates superoxide, and functions as a calcium-dependent proton channel that may regulate redox-dependent processes in lymphocytes and spermatozoa. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]
Function	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. Isoform v2 and isoform v5 are involved in endothelial generation of reactive oxygen species (ROS), proliferation and angiogenesis and contribute to endothelial response to thrombin. [UniProt]
Calculated Mw	86 kDa
Cellular Localization	Membrane; Multi-pass membrane protein. Isoform v2: Endoplasmic reticulum. Isoform v5: Endoplasmic reticulum. [UniProt]

Images



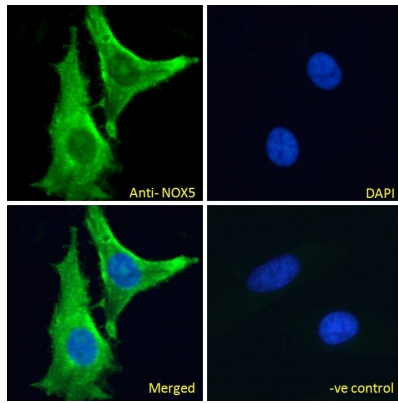
ARG40170 anti-NOX5 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed MCF7 cells, permeabilized with 0.15% Triton. Cells were stained with ARG40170 anti-NOX5 antibody (green) at 10 µg/ml for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG at 10 µg/ml.



ARG40170 anti-NOX5 antibody WB image

Western blot: 35 µg of Human testis lysate (in RIPA buffer) stained with ARG40170 anti-NOX5 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.



ARG40170 anti-NOX5 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed HeLa cells, permeabilized with 0.15% Triton. Cells were stained with ARG40170 anti-NOX5 antibody (green) at 10 $\mu\text{g/ml}$ for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG at 10 $\mu\text{g/ml}$.