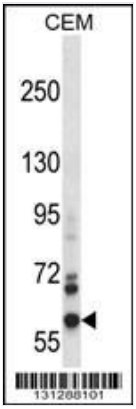
NOX5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOX5, Polyclonal Antibody
Full Product Name	NOX5, CT (NOX5, NADPH oxidase 5) (FITC)
Product Gene Name	anti-NOX5 antibody
Product Synonym Names	NOX5; NADPH oxidase 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	86,439 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (69222839..69349501). Location: 15q23
OMIM	606572
3D Structure	ModBase 3D Structure for Q96PH1
Immunogen	NOX5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 661-691 amino acids from the C-terminal region of human NOX5.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NOX5 antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-NOX5 antibody	Western Blot (WB), FLISA
Application Notes for anti-NOX5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NOX5 antibody	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.
Other Notes	Small volumes of anti-NOX5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NOX5 purchase	MBS6326119 is an antibody targeting NOX5. Also known as NOX5, CT (NOX5, NADPH oxidase 5) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NOX5 antibody
NOX5 Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the NOX5 antibody detected the NOX5 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOX5. It may not necessarily be applicable to this product.

NCBI GI #	296278227
NCBI GeneID	79400
NCBI Accession #	NP_001171708.1
NCBI Related Accession #	NP_078781.3; NP_001171709.1
UniProt Primary Accession #	Q96PH1
UniProt Secondary Accession #	Q08AN2; Q08AN3; Q8TEQ1; Q8TER4; Q96PH2; Q96PJ8; Q96PJ9; Q9H6E0; Q9HAM8; B2RBJ4
UniProt Related Accession #	Q96PH1
GenBank Nucleotide #	NM_001184779.1
NCBI Official Full Name	NADPH oxidase 5 isoform 2
NCBI Official Synonym Full Names	NADPH oxidase, EF-hand calcium binding domain 5
NCBI Official Symbol	NOX5
UniProt Protein Name	NADPH oxidase 5
Protein Family	NADPH oxidase
UniProt Gene Name	NOX5
UniProt Entry Name	NOX5_HUMAN
NCBI Protein Information	NADPH oxidase 5
NCBI Summary for NOX5	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]

UniProt Comments for NOX5	NOX5: 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. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 1.6.3.-; Membrane protein, multi-pass; Oxidoreductase Chromosomal Location of Human Ortholog: 15q23 Cellular Component: endoplasmic reticulum; integral to membrane Molecular Function: protein binding; FAD binding; superoxide-generating NADPH oxidase activity; heme binding; hydrogen ion channel activity; calcium ion binding; NADP binding Biological Process: cell proliferation; proton transport; regulation of fusion of sperm to egg plasma membrane; apoptosis; endothelial cell proliferation; regulation of proton transport; cytokinesis; angiogenesis; superoxide release; cytokine secretion
Research Articles on NOX5	**1.** results suggest that endogenously produced NO can directly S-nitrosylate and inhibit the activity of Nox5
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