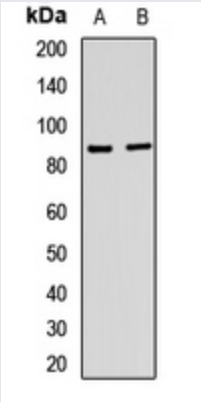
NOX5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOX5, Polyclonal Antibody
Full Product Name	Anti-NOX5 Antibody
Product Gene Name	anti-NOX5 antibody
Product Synonym Names	NADPH oxidase 5
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	Purified by immunogen affinity chromatography
Specificity	Recognizes endogenous levels of NOX5 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	83,109 Da
OMIM	AF325189 mRNA
3D Structure	ModBase 3D Structure for Q96PH1
Immunogen	Recombinant full length protein of human NOX5
Applications Tested/Suitable for anti-NOX5 antibody	Western Blot (WB)
Application Notes for anti-NOX5 antibody	WB: 1/500 - 1/2000
Related Product Information for anti-NOX5 antibody	MBS8292401 is an antibody targeting NOX5. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to NOX5
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.



Western Blot (WB) of anti-NOX5 antibody
Western blot analysis of NOX5 expression in mouse spleen (A), rat spleen (B) whole cell lysates.

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
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 5
NCBI Official Symbol	NOX5
UniProt Protein Name	NADPH oxidase 5
Protein Family	NADPH oxidase
UniProt Gene Name	NOX5
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	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.
Research Articles on NOX5	**1.** Data suggest that NOX5 expression in melanoma cells could contribute to cell proliferation due, in part, to the generation of high local concentrations of extracellular ROS that modulate multiple pathways that regulate HIF-1alpha and networks that signal through Akt/GSK3beta/p27(Kip1) .

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