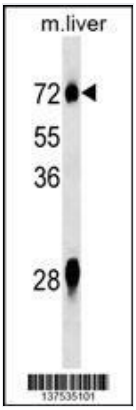
NOX3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOX3, Polyclonal Antibody
Full Product Name	NOX3, NT (NOX3, MOX2, NADPH oxidase 3, Mitogenic oxidase 2, gp91phox homolog 3) (FITC)
Product Gene Name	anti-NOX3 antibody
Product Synonym Names	NOX3; MOX2; NADPH oxidase 3; Mitogenic oxidase 2; gp91phox homolog 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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	64,935 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (155716502..155777037, complement). Location: 6q25.3
OMIM	607105
3D Structure	ModBase 3D Structure for Q9HBY0
Immunogen	NOX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-102 amino acids from the N-terminal region of human NOX3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NOX3 antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-NOX3 antibody	Western Blot (WB), FLISA
Application Notes for anti-NOX3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NOX3 antibody	This gene encodes a member of the NOX family of NADPH oxidases. These enzymes have the capacity to generate superoxide and other reactive oxygen species (ROS) and transport electrons across the plasma membrane. The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranlational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity.

Product References and Citations for anti-NOX3 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Gao, D., et al. J. Biol. Chem. 285(39):29965-29973(2010). Li, L., et al. FEBS Lett. 584(5):995-1000(2010). Segat, L., et al. Vaccine 28(10):2201-2206(2010). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009).
Other Notes	Small volumes of anti-NOX3 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 NOX3 purchase	MBS6326097 is an antibody targeting NOX3. Also known as NOX3, NT (NOX3, MOX2, NADPH oxidase 3, Mitogenic oxidase 2, gp91phox homolog 3) (FITC). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-NOX3 antibody
NOX3 Antibody (N-term) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the NOX3 Antibody detected the NOX3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOX3. It may not necessarily be applicable to this product.

NCBI GI #	11136626
NCBI GeneID	50508
NCBI Accession #	NP_056533.1
UniProt Primary Accession #	Q9HBY0
UniProt Secondary Accession #	Q9HBJ9
UniProt Related Accession #	Q9HBY0
GenBank Nucleotide #	NM_015718.2
NCBI Official Full Name	NADPH oxidase 3
NCBI Official Synonym Full Names	NADPH oxidase 3
NCBI Official Symbol	NOX3
NCBI Official Synonym Symbols	MOX-2; GP91-3
UniProt Protein Name	NADPH oxidase 3
UniProt Synonym Protein Names	Mitogenic oxidase 2; MOX-2; gp91phox homolog 3
Protein Family	NADPH oxidase
UniProt Gene Name	NOX3
UniProt Synonym Gene Names	MOX2; MOX-2; GP91-3
UniProt Entry Name	NOX3_HUMAN
NCBI Protein Information	NADPH oxidase 3; gp91phox homolog 3; mitogenic oxidase 2; NADPH oxidase catalytic subunit-like 3

UniProt Comments for NOX3	NOX3: NADPH oxidase which constitutively produces superoxide upon formation of a complex with CYBA/p22phox. Plays a role in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. Protein type: Oxidoreductase; Membrane protein, integral; Membrane protein, multi-pass; EC 1.6.3.- Chromosomal Location of Human Ortholog: 6q25.3 Cellular Component: cytoplasm; NADPH oxidase complex Molecular Function: superoxide-generating NADPH oxidase activity Biological Process: detection of gravity; thermoregulation; superoxide release; otolith development
Research Articles on NOX3	**1.** Reduced matrigel invasion was mediated by reduced ROS levels coinciding with decreased expression of NADPH oxidase 2, 3, 4 and 5 involved in ROS production.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/nox3/6326097