

NOX3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18356a

Specification

NOX3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9HBY0
Other Accession	NP_056533.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	64935
Antigen Region	73-102

NOX3 Antibody (N-term) - Additional Information

Gene ID 50508

Other Names

NADPH oxidase 3, 163-, Mitogenic oxidase 2, MOX-2, gp91phox homolog 3, GP91-3, NOX3, MOX2

Target/Specificity

This NOX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 73-102 amino acids from the N-terminal region of human NOX3.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NOX3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NOX3 Antibody (N-term) - Protein Information

Name NOX3

Synonyms MOX2

Function NADPH oxidase that catalyzes the generation of superoxide from molecular oxygen utilizing NADPH as an electron donor, upon formation of a complex with CYBA/p22phox (PubMed:[15181005](#), PubMed:[15824103](#)). Plays a role in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity (By similarity).

Cellular Location

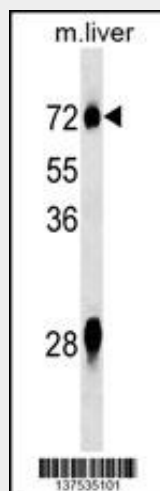
Cell membrane {ECO:0000250|UniProtKB:Q672J9}; Multi-pass membrane protein

NOX3 Antibody (N-term) - 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](#)

NOX3 Antibody (N-term) - Images



NOX3 Antibody (N-term) (Cat. #AP18356a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the NOX3 Antibody detected the NOX3 protein (arrow).

NOX3 Antibody (N-term) - Background

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, posttranslational 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.

NOX3 Antibody (N-term) - References

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)