

**NOX3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18356a****Specification**

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**NOX3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9HBY0](#)**NOX3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 50508**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NOX3 Antibody (N-term) Blocking Peptide - 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:&lt;a href="http://www.uniprot.org/citations/15181005" target="\_blank"&gt;15181005&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/15824103" target="\_blank"&gt;15824103&lt;/a&gt;). 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) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **NOX3 Antibody (N-term) Blocking Peptide - Images**

### **NOX3 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)