



# Nox3 Monoclonal Antibody

Catalog No	BYmab-02721
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NOX3
Protein Name	NADPH oxidase 3
Immunogen	The antiserum was produced against synthesized peptide derived from human NOX3. AA range:287-336
Specificity	Nox3 Monoclonal Antibody detects endogenous levels of Nox3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NOX3; MOX2; NADPH oxidase 3; Mitogenic oxidase 2; MOX-2; gp91phox homolog 3; GP91-3
Observed Band	65kD
Cell Pathway	Membrane ; Multi-pass membrane protein .
Tissue Specificity	Fetal kidney,
Function	developmental stage:Expressed in fetal kidney and to a lower extent in liver, lung and spleen.,enzyme regulation:Activated by the ototoxic drug cisplatin (By similarity). Activated by NOXO1. Cooperatively activated by NCF1 and NCF2 or NOXA1 in a phorbol 12-myristate 13-acetate (PMA)-dependent manner. Inhibited by diphenyleneiodonium chloride.,function: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.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 ferric oxidoreductase domain.,subunit:Interacts with and stabilizes CYBA/p22phox.,

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## 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.[provided by RefSeq, May 2009],

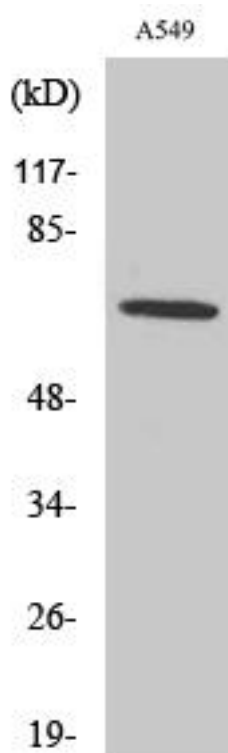
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Nox3 Monoclonal Antibody