



Anti- NOX3 (NADPH oxidase 3) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog #: AB2D025

Antigen Synonym: MOX2

Species Reactivity: Human, Mouse, Rat

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human NOX3(NADPH oxidase 3)

Description: NADPH oxidase which constitutively produces superoxide upon formation of a complex with CYBA/p22phox. NOX3(NADPH oxidase 3) plays a role in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. NOX3(NADPH oxidase 3) is activated by the ototoxic drug cisplatin and by NOXO1. NOX3 is cooperatively activated by NCF1 and NCF2 or NOXA1 in a phorbol 12-myristate 13-acetate (PMA)-dependent manner. It is inhibited by diphenyleneiodonium chloride and interacts with and stabilizes CYBA/p22phox. NOX3 is expressed in fetal kidney and to a lower extent in liver, lung and spleen.

Reference:

Cheng,G., et al, Gene 269 (1-2), 131-140 (2001)
Kikuchi,H., et al, Gene 254 (1-2), 237-243 (2000)
Cheng,G., et al, J. Biol. Chem. 279 (33), 34250-34255 (2004)
Ueno,N., et al, J. Biol. Chem. 280 (24), 23328-23339 (2005)

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