

Product Information

MemDX™ Membrane Protein Human NOX4 (NADPH oxidase 4)

Cat. No.: **MP0028F**

This product is for research use only and is not intended for diagnostic use.

The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NOX4

Protein Length

Full Length

Protein Class

Enzyme

Molecular Weight

70 kDa

TMD

2

Sequence

MAVSWRSWLANEGVKHLCLFIWLSMNVLFWKTFLLYNQGPEYHYLHQMLGLGLCLSRAS
ASVLNLNCSLILLPMCRTLLAYLRGSQKVPSRRTRRLDKSRTFHITCGVTICIFSGVHV
AAHLVNALNFSVNYSEDFVELNAARYRDEDPRKLLFTTVPGLTGVCMMVVLFLMITASTY
AIRVSNYDIFWYTHNLFFVFYMLLTLHVSGGLLKYQTNLDTHPPGCISLNRSSQNISLP
EYFSEHFHEPFPEGFSKPAEFTQHKFKVICMEEPRFQANFPQTWLVISGPLCLYCAERLY
RYIRSNKPVTIISVMSHPSDVMEIRMVKENFKARPGQYITLHCPSVSALENHPFTLTMCPL
TETKATFGVHLKIVGDWTERFRDLLLLPPSSQDSEILPFIQSRNYPKLYIDGPFPGSPFEES
LNYEVSCLVAGGIGVTPFASILNTLLDDWKPYKLRRLYFIWVCRDIQSFRWFADLLCMLH
NKFWQENRPDYVNIQLYLSQTDGIQKIIGEKYHALNSRLFIGRPRWKLLFDEIAKYNRGK
TVGVFCCGPNSLSKTLHKLSNQNNSYGTRFEYNKESFS

Product Description

Activity

Yes

Application

Screening & display technologies, protein therapy

Expression Systems

Cell-free expression system

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>40% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

NOX4

Full Name

NADPH oxidase 4

Introduction

This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.

Alternative Names

KOX, KOX-1, RENOX

Gene ID

[50507](#)

UniProt ID

[Q9NPH5](#)