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Datasheet for ABIN6940247

## anti-NADPH Oxidase 4 antibody

### 1 Image

#### Overview

Quantity:	100 µg
Target:	NADPH Oxidase 4 (NOX4)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NADPH Oxidase 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Coating (Coat)

#### Product Details

Immunogen:	Recombinant human NOX4 protein
Clone:	NOX4-1245
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

#### Target Details

Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	NOX4 ( <a href="#">NOX4 Products</a> )
Background:	The superoxide-generating NADPH oxidase includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane where they associate with the flavocytochrome, cytochrome b558, to form

## Target Details

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the active enzyme complex. The p22 and gp91-phox subunits also function as surface O2 sensors that initiate cellular signaling in response to hypoxic conditions. NOX4 is a renal gp91-phox homolog highly expressed at the site of erythropoietin production in the proximal convoluted tubule epithelial cells of the renal cortex. It is also expressed in fetal tissues, placenta, glioblastoma and vascular cells.

Molecular Weight: 70kDa

Gene ID: 50507

UniProt: [Q9NPH5](#)

Pathways: [Carbohydrate Homeostasis](#), [Smooth Muscle Cell Migration](#)

## Application Details

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Application Notes: Positive Control: PC-12, JAR cells. Kidney.  
Known Application: ELISA (For coating, order Ab without BSA)Western Blot (0.5-1 µg/mL)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

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Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

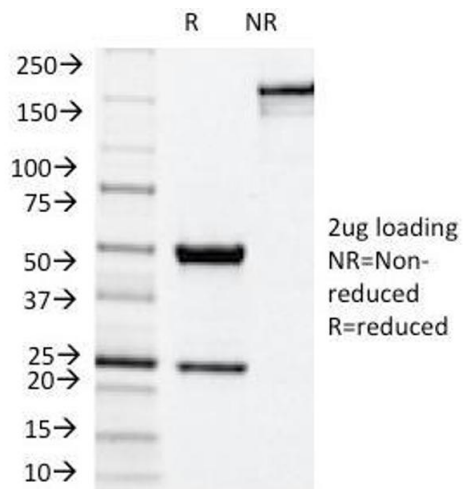
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified NOX4 Mouse Monoclonal Antibody (NOX4/1245). Confirmation of Integrity and Purity of Antibody