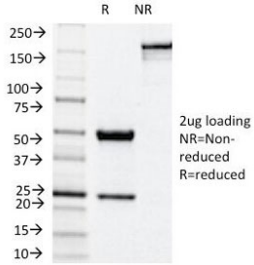
NOX4 Antibody / NADPH Oxidase 4 [clone NOX4/1245] (V3410)

Catalog No.	Formulation	Size
V3410-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3410-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3410SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	NOX4/1245
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	Q9NPH5
Gene ID	4821
Localization	Cytoplasmic and cell surface
Applications	ELISA (order BSA/sodium azide-free format for coating) Western blot: 0.5-1ug/ml
Limitations	This NOX4 antibody is available for research use only.



SDS-PAGE Analysis of Purified, BSA-Free NOX4 Antibody (clone NOX4/1245). Confirmation of Integrity and Purity of the Antibody.

Description

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 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.

For a broader overview of this reactive oxygen species-producing enzyme and additional validated reagents, visit our NOX4 Antibody / Reactive Oxygen Species Enzyme Antibody page.

Application Notes

Titering of the NOX4 antibody may be required for optimal performance.

Immunogen

Human recombinant protein was used as the immunogen for this NOX4 antibody.

Storage

Store the NOX4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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