NADPH oxidase 4 Antibody

Catalog No: #48244

Package Size: #48244-1 50ul #48244-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

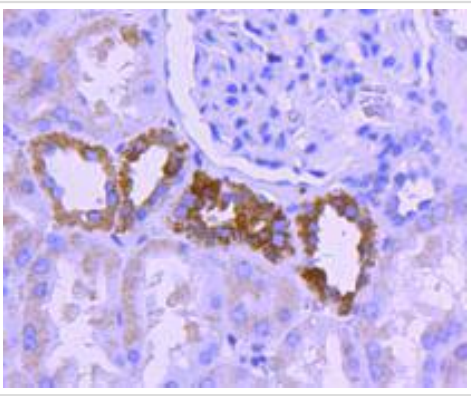
Description

Product Name	NADPH oxidase 4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
Other Names	Kidney oxidase 1 antibody Kidney oxidase-1 antibody Kidney superoxide producing NADPH oxidase antibody Kidney superoxide-producing NADPH oxidase antibody KOX 1 antibody KOX antibody Kox-1 antibody KOX1 antibody NADPH antibody NADPH oxidase 4 antibody Nox4 antibody NOX4_HUMAN antibody Renal NAD(P)H oxidase antibody Renal NAD(P)H-oxidase antibody RENOX antibody
Accession No.	Swiss-Prot#:Q9NPH5
Uniprot	Q9NPH5
GeneID	50507;
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

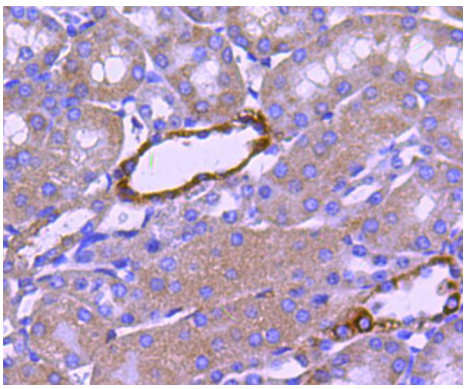
Application Details

IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:10-1:100

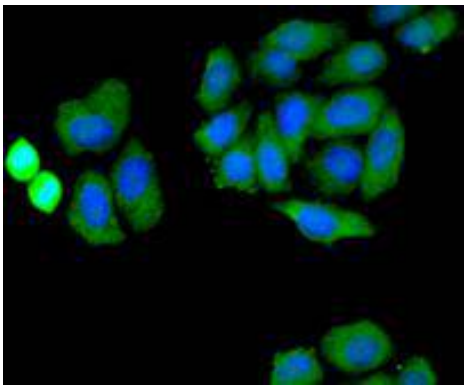
Images



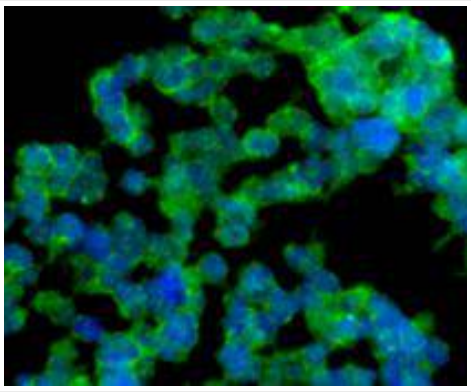
Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-NADPH oxidase 4 rabbit polyclonal antibody.



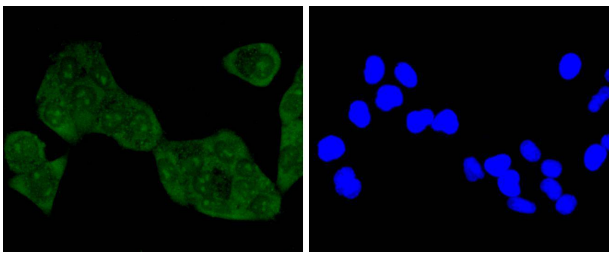
Immunohistochemical analysis of paraffin- embedded mouse kidney tissue using anti-NADPH oxidase 4 rabbit polyclonal antibody.



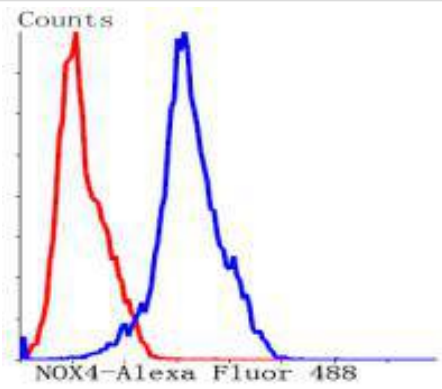
Immunocytochemical staining of HepG2 cells using anti-NADPH oxidase 4 rabbit polyclonal antibody.



Immunocytochemical staining of 293T cells using anti-NADPH oxidase 4 rabbit polyclonal antibody.



Immunocytochemical staining of Hela cells using anti-NADPH oxidase 4 rabbit polyclonal antibody.



Flow cytometric analysis of Hela cells with NADPH oxidase 4 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated Goat anti rabbit IgG was used as the secondary antibody.

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 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 (also known as Renox) 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. Nox4 is also expressed in fetal tissues, placenta, glioblastoma and vascular cells. Like gp91-phox, the enzymatic activity of Nox4 produces superoxide anions. In vascular cells, the addition of Angiotensin II increases Nox4 expression, which suggests a role for Nox4 in vascular oxidative stress response. The gene encoding human Nox4 maps to chromosome 11q14.2-q21

References

Note: This product is for in vitro research use only