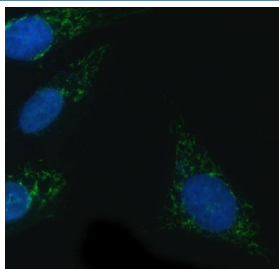


NADPH oxidase 4 Antibody / NOX4 (RQ4166)

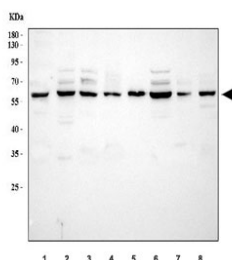
Catalog No.	Formulation	Size
RQ4166	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9NPH5
Localization	Cytoplasmic and cell surface
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml
Limitations	This NADPH oxidase 4 antibody is available for research use only.



Immunofluorescent staining of FFPE human U-2 OS cells with NADPH oxidase 4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human 293T, 2) human U-87 MG, 3) human SH-SY5Y, 4) human U-251, 5) human U-2 OS, 6) human HeLa, 7) human T-47D and 8) monkey COS-7 cell lysate with NADPH oxidase 4 antibody. Expected molecular weight: ~65 kDa, 75-80 kDa.

Description

NADPH oxidase 4 is an enzyme that in humans is encoded by the NOX4 gene, and is a member of the NOX family of NADPH oxidases. 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.

Application Notes

Optimal dilution of the NADPH oxidase 4 antibody should be determined by the researcher.

Immunogen

Amino acids ILNTLLDDWKPYKLRRLYFIWVCRDIQSFRWFADLL were used as the immunogen for the NADPH oxidase 4 antibody.

Storage

After reconstitution, the NADPH oxidase 4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.