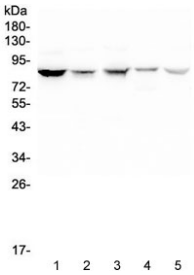
NOX5 Antibody (RQ4593)

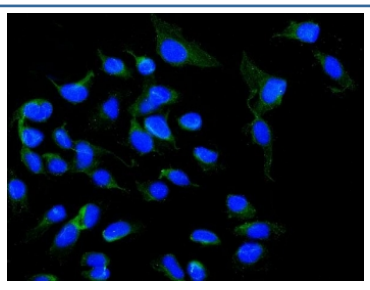
Catalog No.	Formulation	Size
RQ4593	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
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	Q96PH1
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 2-4ug/ml Direct ELISA: 0.1-0.5ug/ml (human recombinant protein)



Western blot testing of human 1) HeLa, 2) placenta, 3) SCG-7901, 4) Jurkat and 5) THP-1 lysate with NOX5 antibody at 0.5ug/ml. Predicted molecular weight: ~86 kDa.



Immunofluorescent staining of FFPE human HeLa cells with NOX5 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

NOX5 (Nadph Oxidase 5) is a protein which in humans is encoded by the NOX5 gene. The International Radiation Hybrid Mapping Consortium mapped the NOX5 gene to chromosome 15. NOX5 is a novel NADPH oxidase that generates superoxide and functions as an H+ channel in a Ca2+-dependent manner. It is found that, when heterologously expressed, NOX5 was quiescent in unstimulated cells. However, in response to elevations of the cytosolic Ca2+ concentration, it generated large amounts of superoxide. Using RT-PCR and Southern and Western blot analyses, NOX5 was identified as a flavin-containing Ca2+-dependent oxidase present in hairy leukemic cells (HC), but not normal B cells.

Learn more about the role of NOX5 in reactive oxygen species generation and redox signaling on our NOX5 Antibody / Reactive Oxygen Species Enzyme Antibody page.

Application Notes

Optimal dilution of the NOX5 antibody should be determined by the researcher.

Immunogen

Amino acids E13-F197 from the human protein were used as the immunogen for the NOX5 antibody.

Storage

After reconstitution, the NOX5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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