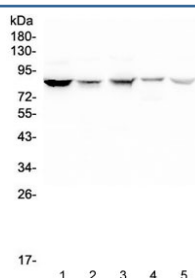


## NOX5 Antibody (RQ4593)

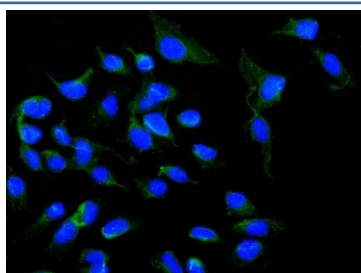
Catalog No.	Formulation	Size
RQ4593	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q96PH1
<b>Applications</b>	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<sup>+</sup> channel in a Ca<sup>2+</sup>-dependent manner. It is found that, when heterologously expressed, NOX5 was quiescent in unstimulated cells. However, in response to elevations of the cytosolic Ca<sup>2+</sup> concentration, it generated large amounts of superoxide. Using RT-PCR and Southern and Western blot analyses, NOX5 was identified as a flavin-containing Ca<sup>2+</sup>-dependent oxidase present in hairy leukemic cells (HC), but not normal B cells.

## 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.