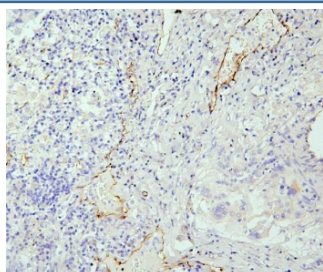


eNos Antibody / NOS3 (RQ5345)

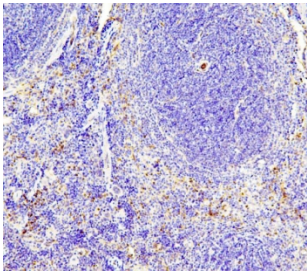
Catalog No.	Formulation	Size
RQ5345	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

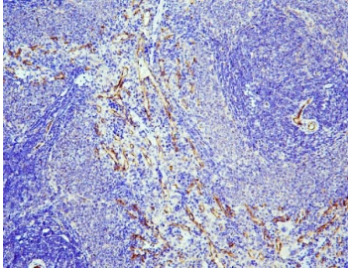
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P29474
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This NOS3 antibody is available for research use only.



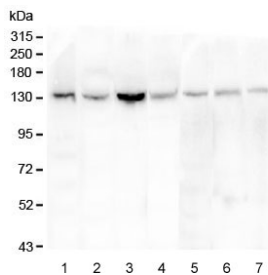
IHC staining of FFPE human lung cancer with eNOS antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



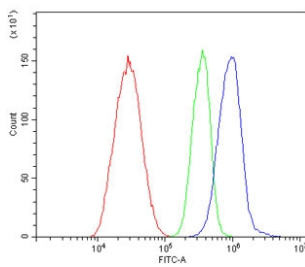
IHC staining of FFPE mouse spleen with eNOS antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



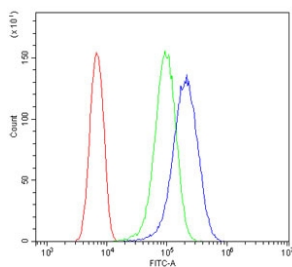
IHC staining of FFPE rat spleen with eNOS antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of 1) human placenta, 2) human K562, 3) human HepG2, 4) human ThP-1, 5) rat kidney, 6) mouse kidney and 7) mouse small intestine with eNOS antibody. Predicted molecular weight ~133 kDa.



Flow cytometry testing of human HepG2 cells with eNOS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= eNOS antibody.



Flow cytometry testing of human U-87 MG cells with eNOS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= eNOS antibody.

Description

NOS3 (Nitric Oxide Synthase 3), also called eNOS, is a nitric oxide synthase that generates NO in blood vessels and is involved with regulating vascular tone by inhibiting smooth muscle contraction and platelet aggregation. The NOS3 gene is mapped on 7q36.1. Variations in this gene are associated with susceptibility to coronary spasm. Fulton et al. (1999) concluded that eNOS is an AKT substrate linking signal transduction by AKT to the release of the gaseous second messenger nitric oxide. AKT mediates the activation of eNOS, leading to increased nitric oxide production. Inhibition of the PI3K/AKT pathway or mutation of the AKT site on eNOS protein at serine-1177 attenuated the serine phosphorylation and prevented the activation of eNOS. RT-PCR analysis showed that expression of NOS3 in human umbilical vein endothelial cells (HUVECs) and human aortic vascular smooth muscle cells (HAOVSMCs) was inversely proportional to

that of NOS3AS.

Application Notes

Optimal dilution of the NOS3 antibody should be determined by the researcher.

Immunogen

Amino acids Q1052-P1203 from the human protein were used as the immunogen for the NOS3 antibody.

Storage

Store the NOS3 antibody at -20oC.