



Rabbit Anti-NOSTRIN antibody

SL13694R

Product Name:	NOSTRIN
Chinese Name:	一氧化氮合酶转运诱导抗体
Alias:	BM247; BM247 homolog; DaIP2; eNOS-trafficking inducer; mDaIP2; MGC20702; Nitric oxide synthase traffic inducer; Nitric oxide synthase trafficker; NOSTN HUMAN; Nostrin; RP23-431D4.2
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	58kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NOSTRIN:301-400/506
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	NOSTRIN (nitric oxide synthase trafficker isoform 1), also known as endothelial nitric oxide synthase traffic inducer, is a member of the Pombe Cdc15 homology (PCH) family of proteins. NOSTRIN is expressed in the vascular endothelial cells of highly vascularized tissues such as placenta, lung, kidney and heart. It consists of an N-terminal Cdc15 domain with an FCH (Fes/CIP homology) region, two coiled coil

domains and a C-terminal SH3 domain. NOSTRIN typically exists as a trimer. It functions as an adaptor protein binding to caveolin-1 via an internal domain and NOS3 via its SH3 domain, forming a ternary complex which facilitates caveolar transport of NOS3. The NOS3 protein is responsible for the production of nitric oxide (NO), a potent mediator in various biological processes. The translocation of NOS3 from the plasma membrane to intracellular vesicle-like structures diminishes NO production. NOSTRIN also interacts with Dynamin and N-WASP via its SH3 domain.

Function:

Multivalent adapter protein which may decrease NOS3 activity by inducing its translocation away from the plasma membrane.

Subcellular Location:

Cell membrane. Cytoplasmic vesicle. Cytoplasm > cytoskeleton. Enriched in selected actin structures.

Tissue Specificity:

Expressed at highest levels in heart, kidney, placenta and lung, and at lowest levels in brain, thymus and spleen. Present in vascular endothelial cells and placenta. Over-expressed in placenta from women with pre-eclampsia (at protein level).

Similarity:

Contains 1 FCH domain.

Contains 1 SH3 domain.

SWISS:

Q8IV19

Gene ID:

115677

Database links:

[Entrez Gene: 115677](#) Human

[Entrez Gene: 329416](#) Mouse

[Omim: 607496](#) Human

[SwissProt: Q8IV19](#) Human

[SwissProt: Q6WKZ7](#) Mouse

[Unigene: 189780](#) Human

[Unigene: 90047](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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