

NOSTRIN Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13833c**Specification**

NOSTRIN Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8IVI9](#)**NOSTRIN Antibody (Center) Blocking peptide - Additional Information****Gene ID** 115677**Other Names**

Nostrin, BM247 homolog, Nitric oxide synthase traffic inducer, Nitric oxide synthase trafficker, eNOS-trafficking inducer, NOSTRIN

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13833c was selected from the Center region of NOSTRIN. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NOSTRIN Antibody (Center) Blocking peptide - Protein Information**Name** NOSTRIN ([HGNC:20203](#))**Function**

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

Cellular Location

[Isoform 1]: Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle. Cytoplasm, cytoskeleton Note=Enriched in selected actin structures (PubMed:16234328, PubMed:16376344)

Tissue Location

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)

NOSTRIN Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NOSTRIN Antibody (Center) Blocking peptide - Images

NOSTRIN Antibody (Center) Blocking peptide - Background

Nitric oxide (NO) is a potent mediator in biologic processes such as neurotransmission, inflammatory response, and vascular homeostasis. NOSTRIN binds the enzyme responsible for NO production, endothelial NO synthase (ENOS; MIM 163729), and triggers the translocation of ENOS from the plasma membrane to vesicle-like subcellular structures, thereby attenuating ENOS-dependent NO production.

NOSTRIN Antibody (Center) Blocking peptide - References

Holt, R., et al. Eur. J. Hum. Genet. 18(9):1013-1019(2010) Maestrini, E., et al. Mol. Psychiatry 15(9):954-968(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Wiesenthal, A., et al. Traffic 10(1):26-34(2009) Schilling, K., et al. Mol. Biol. Cell 17(9):3870-3880(2006)