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NOSTRIN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13833c

Product Information

Application	WB, E
Primary Accession	Q8IVI9
Other Accession	NP_443178.2, NP_001165103.1, NP_001034813.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33426
Calculated MW	57660
Antigen Region	296-325

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	This NOSTRIN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-325 amino acids from the Central region of human NOSTRIN.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NOSTRIN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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)

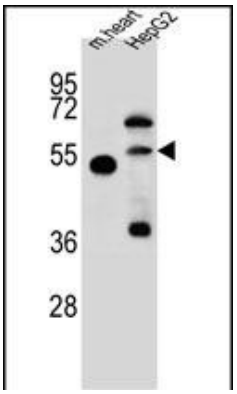
Background

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.

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)

Images



NOSTRIN Antibody (Center) (Cat. #AP13833c) western blot analysis in mouse heart tissue and HepG2 cell line lysates (35ug/lane).This demonstrates the NOSTRIN antibody detected the NOSTRIN protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.