10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EDN1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11389C

Specification

EDN1 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	P05305
Other Accession	NP_001946.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**111-138**

EDN1 Antibody (Center) - Additional Information

Gene ID 1906

Other Names
Endothelin-1, Preproendothelin-1, PPET1, Endothelin-1, ET-1, Big endothelin-1, EDN1

Target/Specificity
This EDN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-138 amino acids from the Central region of human EDN1.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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
EDN1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EDN1 Antibody (Center) - Protein Information

Name EDN1

Function Endothelins are endothelium-derived vasoconstrictor peptides (By similarity). Probable ligand for G-protein coupled receptors EDNRA and EDNRB which activates PTK2B, BCAR1, BCAR3 and, GTPases RAP1 and RHOA cascade in glomerular mesangial cells (PubMed:19086031). Also binds the DEAR/FBXW7-AS1 receptor (PubMed:17446437). Promotes mesenteric arterial wall remodeling via activation of ROCK signaling and subsequent colocalization of NFATC3 with F-actin filaments (By similarity). NFATC3 then translocates to the nucleus where it subsequently promotes the transcription of the smooth muscle hypertrophy and differentiation marker ACTA2 (By similarity).

Cellular Location
Secreted.

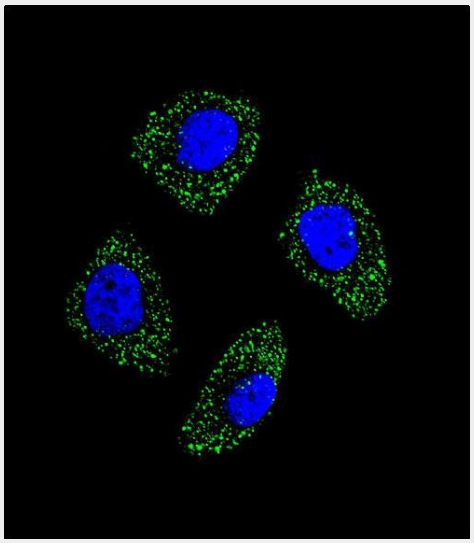
Tissue Location
Expressed in lung, placental stem villi vessels and in cultured placental vascular smooth muscle cells

EDN1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EDN1 Antibody (Center) - Images



Confocal immunofluorescent analysis of EDN1 Antibody (Center)(Cat#AP11389c) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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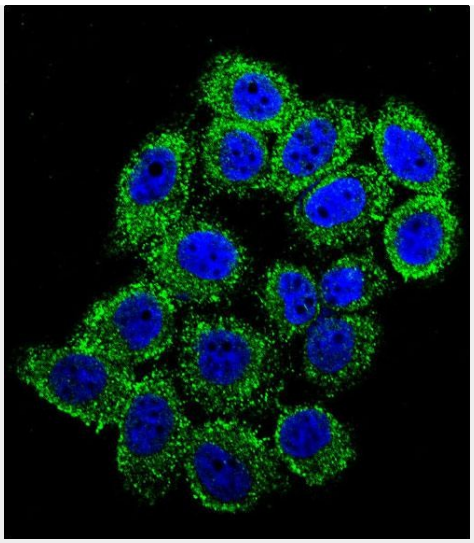

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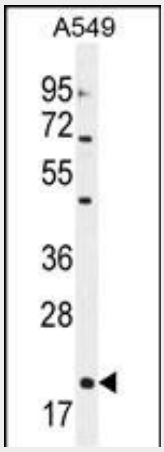
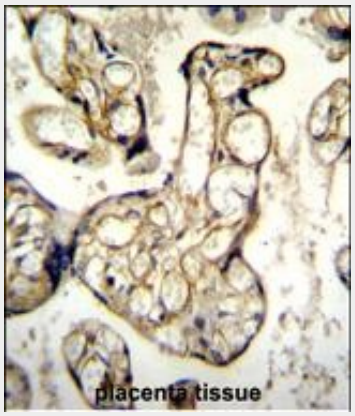


EDN1 Antibody (Center) (Cat. #AP11389c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the EDN1 antibody detected the EDN1 protein (arrow).



EDN1 Antibody (Center) (Cat. #AP11389c)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ZMYND17 EDN1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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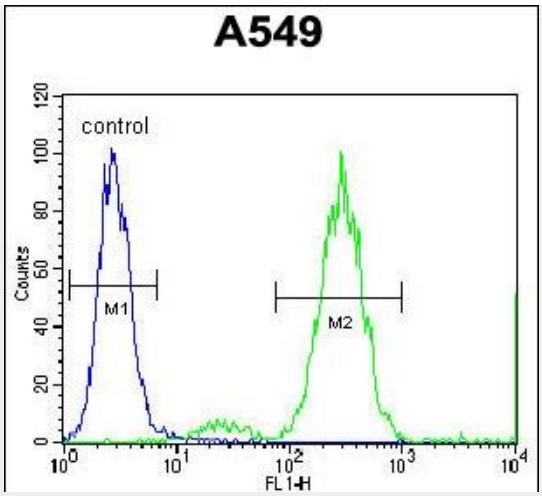

EDN1 Antibody (Center) (Cat. #AP11389c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EDN1 Antibody (Center) - Background

The protein encoded by this gene is proteolytically processed to release a secreted peptide termed endothelin 1. This peptide is a potent vasoconstrictor and is produced by vascular endothelial cells. Endothelin 1 also can affect the central nervous system. Two transcript variants encoding different isoforms have been found for this gene.

EDN1 Antibody (Center) - References

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Feng, J., et al. Circulation 122 (11 SUPPL), S150-S155 (2010) :
Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010)
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