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# EDN1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11389C

## Product Information

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|---|---|
| **Application** | WB, IHC-P, IF, FC, E |
| **Primary Accession** | P05305 |
| **Other Accession** | NP_001946.3 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB29306 |
| **Calculated MW** | 24425 |
| **Antigen Region** | 111-138 |

## Additional Information

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| **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** | WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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. |

## Protein Information

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| **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

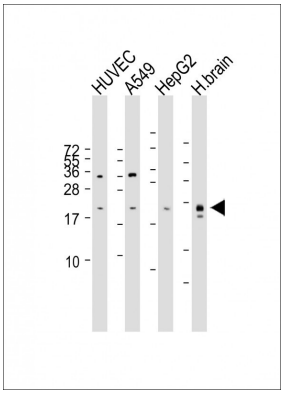
## Background

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.

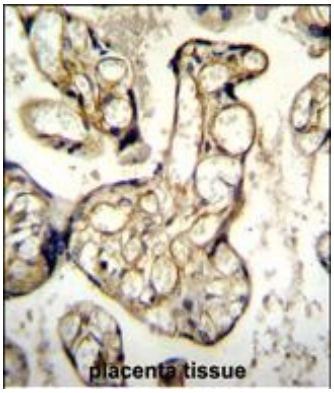
## References

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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)
Kaparianos, A., et al. Eur Rev Med Pharmacol Sci 14(8):705-719(2010)

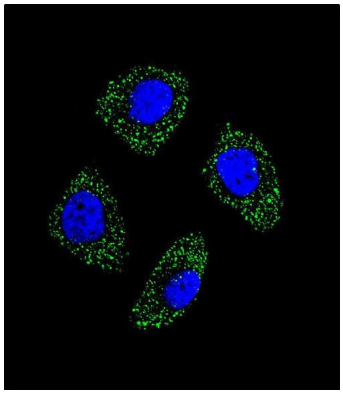
## Images



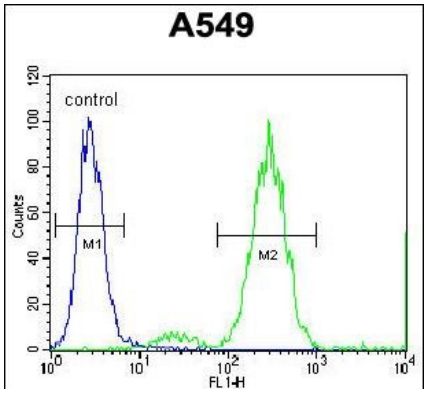

All lanes : Anti-EDN1 Antibody (Center)at 1:500 dilution Lane 1:HUVEC whole cell lysate Lane 2:A549 whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: Human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 24kDa Blocking/Dilution buffer: 5% NFDM/TBST.




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.



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).




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.

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