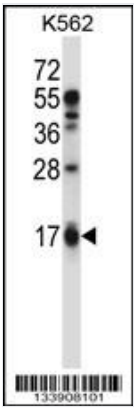
# EDN2 Antibody – Rabbit Polyclonal

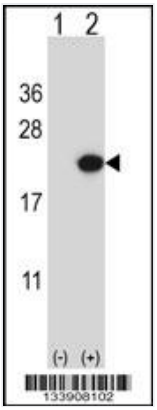
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | EDN2, Polyclonal Antibody |
| **Full Product Name** | EDN2 Antibody (C-term) |
| **Product Gene Name** | anti-EDN2 antibody |
| **Product Synonym Names** | Endothelin-2; ET-2; Preproendothelin-2; PPET2; EDN2 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human (Predicted Reactivity: Monkey) |
| **Form/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. |
| **Purity/Purification** | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 0.5 (lot specific) |
| **Specificity** | This EDN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-136 amino acids from the C-terminal region of human EDN2. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | EDN2 peptide (MBS9220254) is used for blocking the activity of EDN2 antibody (MBS9213876) |
| **Molecular Weight** | 19960 |
| **Immunogen Sequence Positions** | 107-136 |
| **OMIM** | 131241 |
| **3D Structure** | ModBase 3D Structure for P20800 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Product Categories/Family for anti-EDN2 antibody** | Cancer; Cardiovascular; Signal transduction |
| **Applications Tested/Suitable for anti-EDN2 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-EDN2 antibody** | WB~~1:1000 |
| **Related Product Information for anti-EDN2 antibody** | This gene encodes a member of the endothelin protein family of secretory vasoconstrictive peptides. The preproprotein is processed to a short mature form which functions as a ligand for the endothelin receptors that initiate intracellular signaling events. This gene product is involved in a wide range of biological processes, such as hypertension and ovulation. [provided by RefSeq]. |

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| **Product References and Citations for anti-EDN2 antibody** | Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)<br>Darrah, R., et al. Physiol. Genomics 41(1):71-77(2010)<br>Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)<br>Menon, R., et al. Reprod. Biol. Endocrinol. 7, 62 (2009) :<br>Wiesmann, F., et al. Breast Cancer Res. 11 (3), R34 (2009) : |
| **Other Notes** | Small volumes of anti-EDN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for EDN2 purchase** | MBS9213876 is an antibody targeting EDN2. Also known as EDN2 Antibody (C-term). Reactive in Human (Predicted Reactivity: Monkey). Host: Rabbit. |




**Western Blot (WB) of anti-EDN2 antibody**
EDN2 Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the EDN2 antibody detected the EDN2 protein (arrow).




**Western Blot (WB) of anti-EDN2 antibody**
Western blot analysis of EDN2 (arrow) using rabbit polyclonal EDN2 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the EDN2 gene.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDN2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4503463 |
| **NCBI GeneID** | 1907 |
| **NCBI Accession #** | NP_001947.1 |
| **UniProt Primary Accession #** | P20800 |
| **UniProt Secondary Accession #** | Q5T1R3 |
| **UniProt Related Accession #** | P20800 |
| **GenBank Nucleotide #** | NM_001956.4 |
| **NCBI Official Full Name** | endothelin-2 isoform 1 preproprotein |
| **NCBI Official Synonym Full Names** | endothelin 2 |
| **NCBI Official Symbol** | EDN2 |
| **NCBI Official Synonym Symbols** | ET2; ET-2; PPET2 |
| **UniProt Protein Name** | Endothelin-2 |
| **UniProt Synonym Protein Names** | Preproendothelin-2; PPET2 |
| **Protein Family** | Endothelin |
| **UniProt Gene Name** | EDN2 |
| **UniProt Synonym Gene Names** | ET-2; PPET2 |

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| **UniProt Entry Name** | EDN2_HUMAN |
| **NCBI Protein Information** | endothelin-2 |
| **NCBI Summary for EDN2** | This gene encodes a member of the endothelin protein family of secretory vasoconstrictive peptides. The preproprotein is processed to a short mature form which functions as a ligand for the endothelin receptors that initiate intracellular signaling events. This gene product is involved in a wide range of biological processes, such as hypertension and ovulation. Altered expression of this gene is implicated in tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014] |
| **UniProt Comments for EDN2** | EDN2: Endothelins are endothelium-derived vasoconstrictor peptides. Belongs to the endothelin/sarafotoxin family.<br><br>Protein type: Secreted, signal peptide; Secreted<br><br>Chromosomal Location of Human Ortholog: 1p34<br><br>Cellular Component: extracellular space; extracellular region<br><br>Molecular Function: hormone activity<br><br>Biological Process: neutrophil chemotaxis; vasoconstriction; inositol phosphate-mediated signaling; regulation of systemic arterial blood pressure by endothelin; cytokine and chemokine mediated signaling pathway; positive regulation of the force of heart contraction by chemical signal; calcium-mediated signaling; positive regulation of leukocyte chemotaxis; positive regulation of heart rate; thermoregulation; vein smooth muscle contraction; hormonal regulation of the force of heart contraction; prostaglandin biosynthetic process; macrophage chemotaxis; macrophage activation; elevation of cytosolic calcium ion concentration; cell surface receptor linked signal transduction; regulation of vasoconstriction; positive regulation of cell proliferation; positive regulation of smooth muscle contraction; alveolus development; artery smooth muscle contraction |
| **Research Articles on EDN2** | **1.** Overexpression of Edn2 in the mouse retina causes an excess of tip cells and inhibits vascular growth. Overexpression of Edn2 in the brain and skin had no effect, but vascular development was inhibited in midgestation mouse embryos. |
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