

Product datasheet for **AP23290PU-N**

Endothelin B Receptor (EDNRB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1 µg/ml.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of Human EDNR-B (244-258aa).
Specificity:	This antibody detects Endothelin B Receptor. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal and 0.05mg Sodium Azide State: Aff - Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification:	Immunogen Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	endothelin receptor type B
Database Link:	Entrez Gene 1910 Human P24530



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Background:	Endothelin Receptor B (EDNR-B), also called endothelin receptor, nonselective type (ETB, ETRB). It is a G-protein-coupled receptor with seven transmembrane domains which is required for the development of melanocytes and enteric neurons and migration of melanoblasts and enteric neuroblasts. The EDNRB gene spans 24 kilobases and consists of seven exons and six introns. This gene was expressed in human glaucomatous optic nerves and mapped to 13q22. The cDNA fragment for horse EDNRB contained a 1329 bp open reading frame which encoded 443 amino acid residues. The predicted amino acid sequence was 89, 91 and 85% identical to human, bovine and mouse as well as rat EDNRB respectively, but only 55% identical to the human, bovine and rat endothelin A receptor (EDNRA). EDNRB plays an essential role in the normal development of two neural crest-derived cell lineages, epidermal melanocytes and enteric neurons in three mammalian species--humans, mice, and rats. The EDNRB-deficient rat may also prove valuable in defining the postnatal physiologic role of this receptor.
Synonyms:	ET-BR, ET-B, EDNRB, ETRB, ETB, ETBR, HSCR, WS4A, ABCDS, HSCR2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Melanogenesis, Neuroactive ligand-receptor interaction