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# Rabbit Anti-Endothelin B Receptor antibody

SL4198R

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| **Product Name:** | Endothelin B Receptor |
| **Chinese Name:** | 内皮素B受体抗体 |
| **Alias:** | ABCDS; Ednra; Ednrb; EDNRB_HUMAN; Endothelin B receptor; Endothelin B receptor precursor; Endothelin receptor Non selective type; Endothelin receptor non-selective type; Endothelin receptor type B; ET B; ET-B; ET-BR; ETB; ETRB; Hirschsprung disease 2; HSCR; HSCR2; EDNRB; HSCR; WS4A. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000Flow-Cyt=2ug/Test<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 47kDa |
| **Cellular localization:** | The cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human Endothelin B Receptor:378-442/442<Cytoplasmic> |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | The protein encoded by this gene is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the |

endothelin receptor type B gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

**Function:**
Non-specific receptor for endothelin 1, 2, and 3. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

**Subcellular Location:**
Cell membrane; Multi-pass membrane protein.

**Tissue Specificity:**
Expressed in placental stem villi vessels, but not in cultured placental villi smooth muscle cells.

**Post-translational modifications:**
Palmitoylation of Cys-402 was confirmed by the palmitoylation of Cys-402 in a deletion mutant lacking both Cys-403 and Cys-405.

**DISEASE:**
Defects in EDNRB are a cause of Waardenburg syndrome type 4A (WS4A) [MIM:277580]; also known as Waardenburg-Shah syndrome. WS4A is characterized by the association of Waardenburg features (depigmentation and deafness) and the absence of enteric ganglia in the distal part of the intestine (Hirschsprung disease).
Defects in EDNRB are the cause of Hirschsprung disease type 2 (HSCR2) [MIM:600155]; also known as aganglionic megacolon (MGC). HSCR2 is a congenital disorder characterized by absence of enteric ganglia along a variable length of the intestine. It is the most common cause of congenital intestinal obstruction. Early symptoms range from complete acute neonatal obstruction, characterized by vomiting, abdominal distention and failure to pass stool, to chronic constipation in the older child.
Defects in EDNRB are the cause of ABCD syndrome (ABCDS) [MIM:600501]. ABCD syndrome is an autosomal recessive syndrome characterized by albinism, black lock at temporal occipital region, bilateral deafness, aganglionosis of the large intestine and total absence of neurocytes and nerve fibers in the small intestine.

**Similarity:**
Belongs to the G-protein coupled receptor 1 family. Endothelin receptor subfamily. EDNRB sub-subfamily.

**SWISS:**
P24530

**Gene ID:**
1910

**Database links:**

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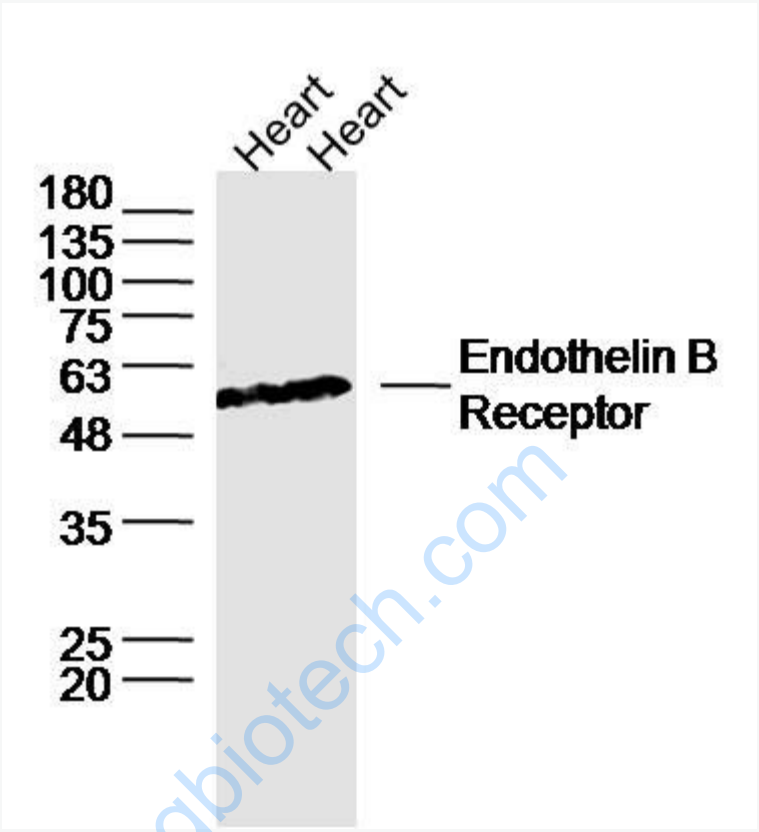
| | Entrez Gene: 408082Chicken<br>Entrez Gene: 281750Cow<br>Entrez Gene: 100033875Horse<br>Entrez Gene: 1910Human<br>Entrez Gene: 13618Mouse<br>Entrez Gene: 100009477Rabbit<br>Entrez Gene: 50672Rat<br>Omim: 131244Human<br>SwissProt: P28088Cow<br>SwissProt: O62709Horse<br>SwissProt: P24530Human<br>SwissProt: P48302Mouse<br>SwissProt: P35463Pig<br>SwissProt: Q9N0W7Rabbit<br>SwissProt: P21451Rat<br>Unigene: 487Cow<br>Unigene: 13045Horse<br>Unigene: 82002Human<br>Unigene: 229532Mouse<br>Unigene: 27603Pig<br>Unigene: 6857Rabbit<br>Unigene: 11412Rat<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

**Picture:**




Sample: Lane1:Heart (Rat)Lysate at 40 ug

Lane2:Heart (Mouse) Lysate at 40 ug

Primary: Anti-Endothelin B Receptor(SL4198R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 47kD

Observed band size: 50kD

Overlay histogram showing SP2/0 cells stained with bs-4198R-PE (red line). The cells were fixed with 1%paraformaldehyde (10 min) and then permeabilized with 1x PBS /0.2%TritonX-100 for 5 min. The cells were then incubated in 1x PBS /

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| | 1%BSA to block non-specific protein-protein interactions. The cells were then incubated with the antibody (SL4198R) for 30 min at 22-25°C. Isotype control antibody (black line) was rabbit IgG (2ug/1x$10^6$ cells) used under the same conditions. Acquisition of >5,000 events was performed. |