



Rabbit Anti-ETBR antibody

SL2363R

Product Name:	ETBR
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=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EDNRB:31-130/442<Extracellular>
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:	Endothelin receptor type B (ETRB) is a G protein-coupled receptor that activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. A splice variant

(SVR), differing in the intracellular C terminal domain, has been described for this receptor. Both WT and the variant bind ET1. However, they exhibit different responses upon binding - suggesting that these two variants are functionally distinct.

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:

[Entrez Gene: 408082](#)Chicken

[Entrez Gene: 281750](#)Cow

[Entrez Gene: 1910](#)Human

[Entrez Gene: 13618](#)Mouse

[Entrez Gene: 100009477](#)Rabbit

[Entrez Gene: 50672](#)Rat

[Olim: 131244](#)Human

[SwissProt: P28088](#)Cow

[SwissProt: P24530](#)Human

[SwissProt: P48302](#)Mouse

[SwissProt: P35463](#)Pig

[SwissProt: Q9N0W7](#)Rabbit

[SwissProt: P21451](#)Rat

[Unigene: 487](#)Cow

[Unigene: 82002](#)Human

[Unigene: 229532](#)Mouse

[Unigene: 27603](#)Pig

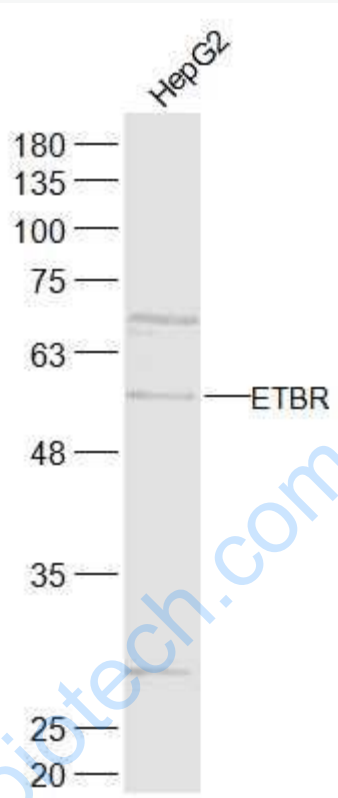
[Unigene: 6857](#)Rabbit

[Unigene: 11412](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-ETBR (SL2363R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 55 kD