SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ETBR antibody

Catalog Number: SL2363R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ETBR
Immunogen:	KLH conjugated synthetic peptide derived from human EDNRB: 31-130/442 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	50kDa
Subcellular Location:	The cell membrane
Background:	Endothelin receptor type B (ETRB) is a G protein-coupled receptor that activates a phosphatidylinoitol-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

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	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. **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 Omim: 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

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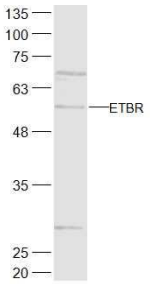
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	Unigene: 11412 Rat

[VALIDATION IMAGES]



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

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