Product Name: ETBR Rabbit Polyclonal Antibody
Catalog #: APRab10644

Summary

Production Name	ETBR Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	EDNRB
Alternative Names	Endothelin B receptor (ET-B;ET-BR;Endothelin receptor non-selective type)
Gene ID	1910.0
SwissProt ID	P24530.Synthesized peptide derived from ETBR at AA range: 31-80

Application

Dilution Ratio	IHC-p: 100-300.WB 1:500-2000, ELISA 1:10000-20000. IF 1:50-200
Molecular Weight	50kD

Background

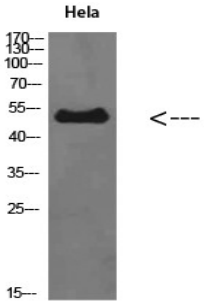
The protein encoded by this gene is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second

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. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016],disease:Defects in EDNRB are a cause of Waardenburg syndrome type IV (WS4) [MIM:277580]; also known as Waardenburg-Shah syndrome. WS4 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).,disease: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.,disease:Defects in EDNRB are the cause of Hirschsprung disease type 2 (HSCR2) [MIM:600155]; also known as aganglionic megacolon (MGC). It 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.,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.,PTM:Palmitoylation of Cys-402 was confirmed by the palmitoylation of Cys-402 in a deletion mutant lacking both Cys-403 and Cys-405.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed in placental stem villi vessels, but not in cultured placental villi smooth muscle cells.,

Research Area

Calcium;Neuroactive ligand-receptor interaction;Melanogenesis;

Image Data



Western Blot analysis of Hela cells using ETBR Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000

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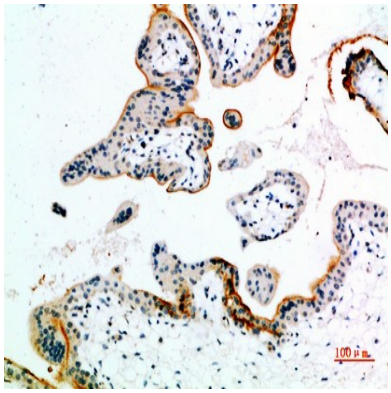
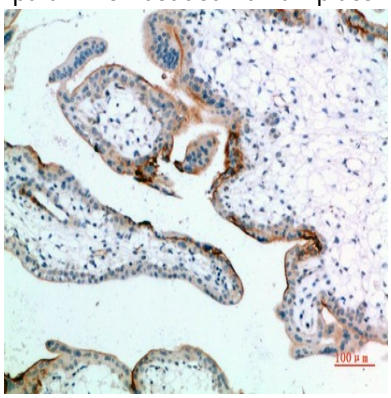


Immunohistochemical analysis of paraffin-embedded human-placenta, antibody was diluted at 1:200



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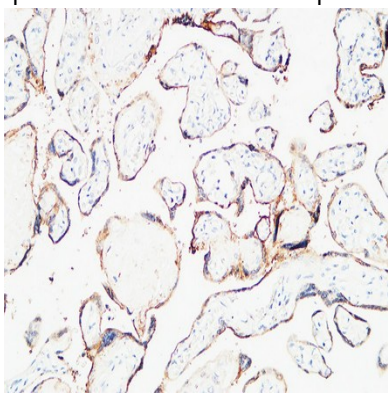

Immunohistochemical analysis of paraffin-embedded Human placenta. 1, Antibody was diluted at 1:200（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.

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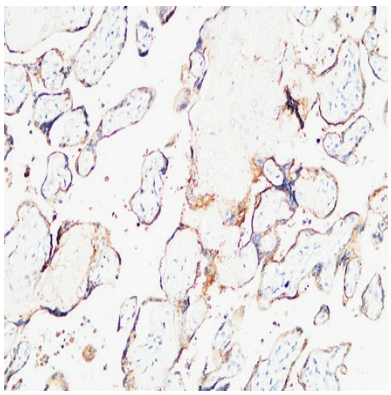

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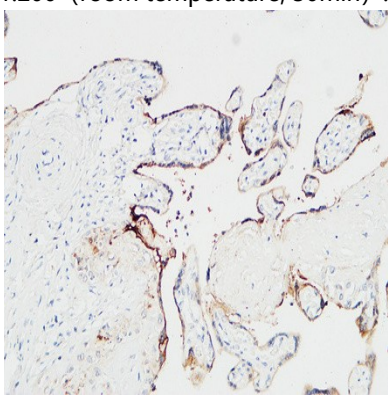

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Note

For research use only.