SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-BTR1 antibody

Catalog Number: SL22390R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	BTR1
Immunogen:	KLH conjugated synthetic peptide derived from human BTR1 : 61-160/891 <Cytoplasmic>
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 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat)
Predicted MW.:	100kDa
Subcellular Location:	The cell membrane
Background:	BtR1 is a cadherin receptor from the tobacco hornworm Manduca sexta. **Function:** Transporter which plays an important role in sodium-mediated fluid transport in different organs. Prevents severe morphological changes of the cornea caused by increased sodium chloride concentrations in the stroma. In the inner ear, is involved in transport of potassium through the fibrocyte layer to the stria vascularis and is essential for the generation of the endocochlear potential but not for regulation of potassium concentrations in the endolymph. In the kidney, is essential for urinary concentration, mediates a sodium flux into the thin descending limb of Henle loop to allow countercurrent multiplication by osmotic equilibration (By similarity). Involved in borate homeostasis. In the absence of borate, it functions as a Na(+) and OH(-)(H(+)) channel. In the presence of borate functions as an electrogenic Na(+) coupled borate cotransporter. **Subunit:** Homodimer.

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

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	Subcellular Location: Cell membrane. Membrane; Multi-pass membrane protein. **Tissue Specificity:** Widely expressed. Highly expressed in kidney, testis, salivary gland, thyroid, trachea and corneal endothelium. Not detected in retina and lymphocytes. **Post-translational modifications:** Glycosylated. DISEASE: Corneal dystrophy and perceptive deafness (CDPD) [MIM:217400]: An ocular disease characterized by the association of corneal clouding with progressive perceptive hearing loss. Note=The disease is caused by mutations affecting the gene represented in this entry. Corneal dystrophy, endothelial 2, autosomal recessive (CHED2) [MIM:217700]: A congenital corneal dystrophy characterized by thickening and opacification of the cornea, altered morphology of the endothelium, and secretion of an abnormal collagenous layer at the Descemet membrane. Note=The disease is caused by mutations affecting the gene represented in this entry. Corneal dystrophy, Fuchs endothelial, 4 (FECD4) [MIM:613268]: A corneal disease caused by loss of endothelium of the central cornea. It is characterized by focal wart-like guttata that arise from Descemet membrane and develop in the central cornea, epithelial blisters, reduced vision and pain. Descemet membrane is thickened by abnormal collagenous deposition. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the anion exchanger (TC 2.A.31) family. **Database links:** **Entrez Gene:** 83959 Human **Entrez Gene:** 532407 Cow **Entrez Gene:** 269356 Mouse **Entrez Gene:** 311423 Rat Omim: 610206 Human **SwissProt:** Q8NBS3 Human **SwissProt:** A2AJN7 Mouse **Unigene:** 105607 Human **Unigene:** 441391 Mouse

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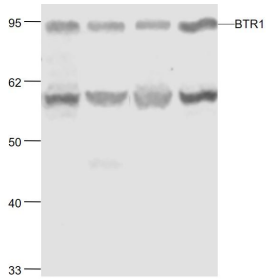
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[VALIDATION IMAGES]



Sample:
HepG2 (Human) Cell Lysate at 30 ug
A549 (Human) Cell Lysate at 30 ug
U2os (Human) Cell Lysate at 30 ug
MCF-7 (Human) Cell Lysate at 30 ug
Primary: Anti-BTR1 (SL22390R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 90 kD
Observed band size: 92 kD

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