Product Name: BTR1 Rabbit Polyclonal Antibody
Catalog #: APRab07692

Summary

Production Name	BTR1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,
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	SLC4A11
Alternative Names	SLC4A11; BTR1; Sodium bicarbonate transporter-like protein 11; Bicarbonate transporter-related protein 1; Sodium borate cotransporter 1; NaBC1; Solute carrier family 4 member 11
Gene ID	83959.0
SwissProt ID	Q8NBS3.The antiserum was produced against synthesized peptide derived from human SLC4A11. AA range:291-340

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	100kD

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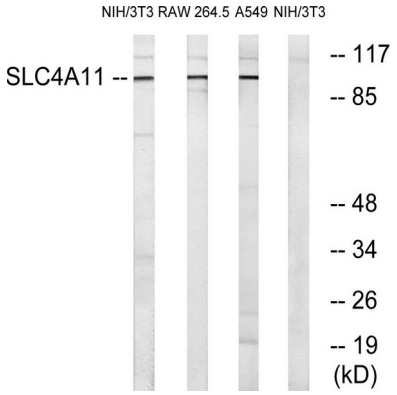
Background

This gene encodes a voltage-regulated, electrogenic sodium-coupled borate cotransporter that is essential for borate homeostasis, cell growth and cell proliferation. Mutations in this gene have been associated with a number of endothelial corneal dystrophies including recessive corneal endothelial dystrophy 2, corneal dystrophy and perceptive deafness, and Fuchs endothelial corneal dystrophy. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2010],disease:Defects in SLC4A11 are the cause of corneal dystrophy and perceptive deafness (CDPD) [MIM:217400]; also known as corneal dystrophy and sensorineural deafness or Harboyan syndrome. CDPD consists of congenital corneal endothelial dystrophy and progressive perceptive deafness. Inheritance is autosomal recessive.,disease:Defects in SLC4A11 are the cause of corneal endothelial dystrophy type 2 (CHED2) [MIM:217700]; also known as congenital hereditary endothelial dystrophy of cornea. This bilateral corneal dystrophy is characterized by corneal opacification and nystagmus. Inheritance is autosomal recessive.,function:Transporter 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.,PTM:Glycosylated.,similarity:Belongs to the anion exchanger (TC 2.A.31) family.,tissue specificity:Widely expressed. Highly expressed in kidney, testis, salivary gland, thyroid, trachea and corneal endothelium. Not detected in retina and lymphocytes.,

Research Area

Image Data



Western blot analysis of lysates from NIH/3T3, RAW264.7, and A549 cells, using SLC4A11 Antibody. The lane on the right is blocked with the synthesized peptide.

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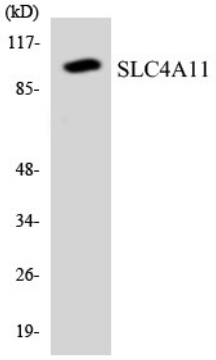
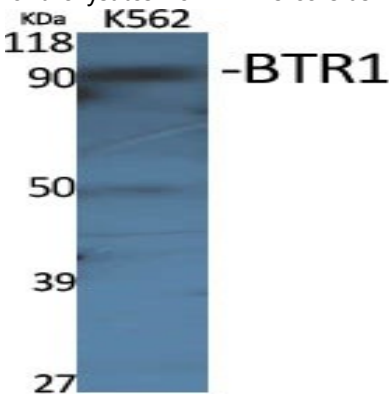
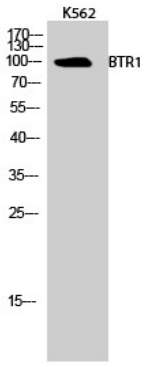


Western blot analysis of the lysates from HT-29 cells using SLC4A11 antibody.



Western Blot analysis of various cells using BTR1 Polyclonal Antibody



Western Blot analysis of K562 cells using BTR1 Polyclonal Antibody

Note

For research use only.