Best Tools for immunology Research

BTR1 Polyclonal Antibody

Catalog No :	YT0545
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	BTR1
Gene Name :	SLC4A11
Protein Name :	Sodium bicarbonate transporter-like protein 11
Human Gene Id :	83959
Human Swiss Prot No :	Q8NBS3
Mouse Swiss Prot No :	A2AJN7
Immunogen :	The antiserum was produced against synthesized peptide derived from human SLC4A11. AA range:291-340
Specificity :	BTR1 Polyclonal Antibody detects endogenous levels of BTR1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	100kD

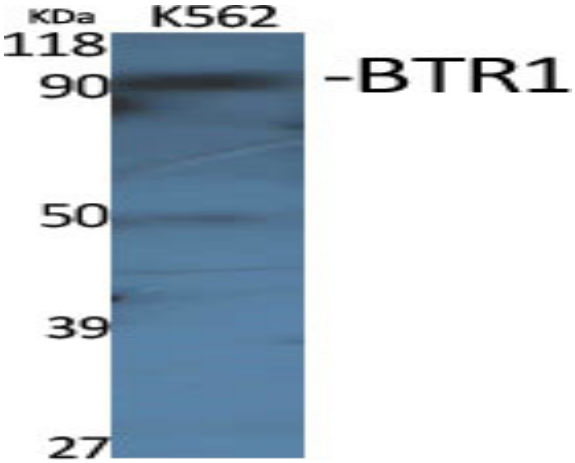
Background : This gene encodes a voltage-regulated, electrogenic sodium-coupled borate cotransporter that is essential for borate homeostasis, cell growth and cell proliferation. Mutations in this gene have been associated with a number of endothelial corneal dystrophies including recessive corneal endothelial 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],

Function : 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

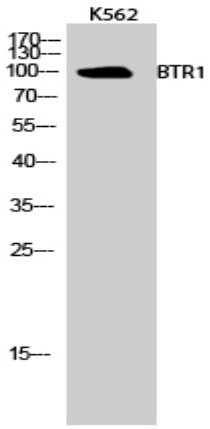
Subcellular Location : Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein .

Expression : Widely expressed. Highly expressed in kidney, testis, salivary gland, thyroid, trachea and corneal endothelium. Not detected in retina and lymphocytes. ; [Isoform 3]: Expressed in corneal endothelium (at protein level). ; [Isoform 5]: The predominant isoform in corneal endothelium (at protein level).

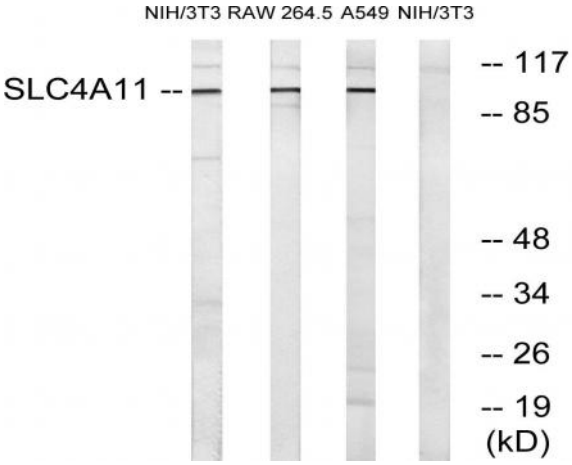
Products Images



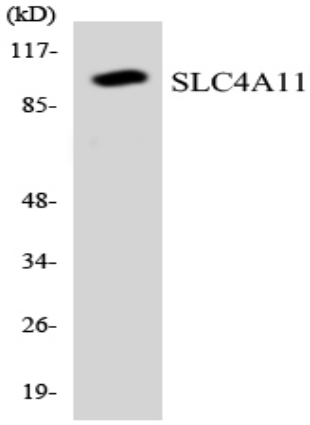
Western Blot analysis of various cells using BTR1 Polyclonal Antibody



Western Blot analysis of K562 cells using BTR1 Polyclonal Antibody



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.



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