



# BTR1 Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-03088                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applications       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name          | SLC4A11                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein Name       | Sodium bicarbonate transporter-like protein 11                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                          |
| Dilution           | Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Synonyms           | SLC4A11; BTR1; Sodium bicarbonate transporter-like protein 11; Bicarbonate transporter-related protein 1; Sodium borate cotransporter 1; NaBC1; Solute carrier family 4 member 11                                                                                                                                                                                                                                                                              |
| Observed Band      | 100kD                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cell Pathway       | Cell membrane ; Multi-pass membrane protein . Basolateral cell 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. ; [Isoform 3]: Expressed in corneal endothelium (at protein level). ; [Isoform 5]: The predominant isoform in corneal endothelium (at protein level).                                                                                                                                                  |
| 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 |

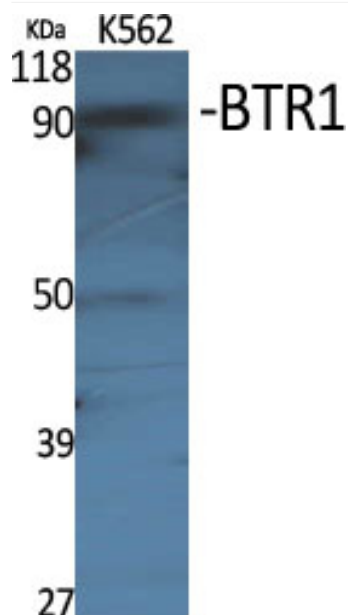
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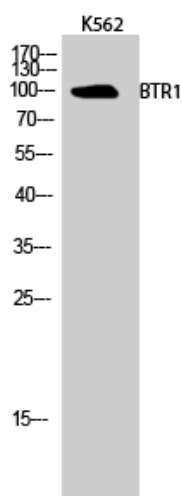
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | 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                                                      |
| 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], |
| matters needing attention | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                         |



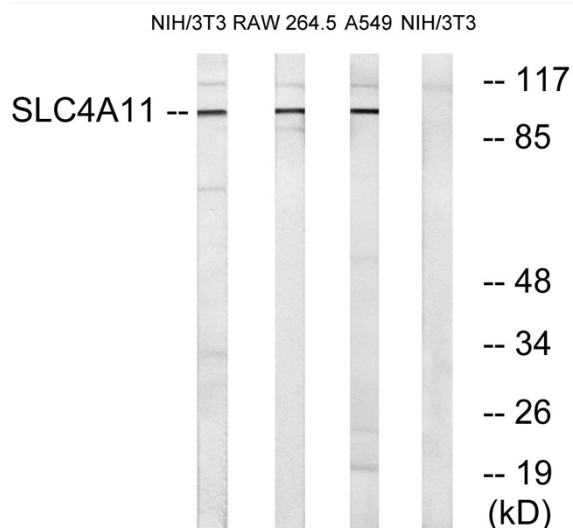
## Products Images



Western Blot analysis of various cells using BTR1 Polyclonal Antibody

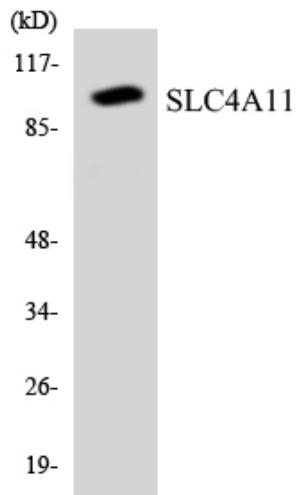


Western Blot analysis of K562 cells using BTR1 Polyclonal Antibody



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.

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