Anti-SLC4A11 (Sodium bicarbonate transporter-like protein 11) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog #: AB3D112

Synonym: BTR1 (Bicarbonate transporter-related protein 1)

Species Reactivity: Human, Mouse

Immunogen/Specificity:
Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human SLC4A11 (Sodium bicarbonate transporter-like protein 11)

Description: SLC4A11 (Sodium bicarbonate transporter-like protein 11) 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. SLC4A11 (Sodium bicarbonate transporter-like protein 11) is a multi-pass membrane protein. SLC4A11 is highly expressed in kidney, testis, salivary gland, thyroid, trachea and corneal endothelium. Defects in SLC4A11 are the cause of corneal dystrophy and perceptive deafness (CDPD); 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. 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.

Reference:
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Park,M., Li,Q., et al, Mol. Cell 16 (3), 331-341 (2004)
Vithana,E.N., et al, Hum. Mol. Genet. 17 (5), 656-666 (2008)
Vithana,E.N., et al, Nat. Genet. 38 (7), 755-757 (2006)
Jiao,X., et al, J. Med. Genet. 44 (1), 64-68 (2007)
Desir,J., et al, J. Med. Genet. 44 (5), 322-326 (2007)

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