Datasheet for ABIN967035

anti-SLC4A11 antibody (C-Term)

6 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	SLC4A11
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC4A11 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

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

Target Details

Target:	SLC4A11
Alternative Name:	SLC4A11 (SLC4A11 Products)
Background:	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

Target Details

	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.
Pathways:	Proton Transport

Application Details

Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:

Vithana, Morgan, Ramprasad, Tan, Yong, Venkataraman, Venkatraman, Yam, Nagasamy, Law, Rajagopal, Pang, Kumaramanickevel, Casey, Aung: "SLC4A11 mutations in Fuchs endothelial corneal dystrophy." in: **Human molecular genetics**, Vol. 17, Issue 5, pp. 656-66, (2008) (PubMed).

Jiao, Sultana, Garg, Ramamurthy, Vemuganti, Gangopadhyay, Hejtmancik, Kannabiran: " Autosomal recessive corneal endothelial dystrophy (CHED2) is associated with mutations in SLC4A11." in: **Journal of medical genetics**, Vol. 44, Issue 1, pp. 64-8, (2007) (PubMed).

Desir, Moya, Reish, Van Regemorter, Deconinck, David, Meire, Abramowicz: "Borate transporter SLC4A11 mutations cause both Harboyan syndrome and non-syndromic corneal endothelial dystrophy." in: **Journal of medical genetics**, Vol. 44, Issue 5, pp. 322-6, (2007) (PubMed).

Vithana, Morgan, Sundaresan, Ebenezer, Tan, Mohamed, Anand, Khine, Venkataraman, Yong, Salto-Tellez, Venkatraman, Guo, Hemadevi, Srinivasan, Prajna, Khine, Casey, Inglehearn, Aung: " Mutations in sodium-borate cotransporter SLC4A11 cause recessive congenital hereditary endothelial dystrophy (CHED2)." in: **Nature genetics**, Vol. 38, Issue 7, pp. 755-7, (2006) (PubMed).

Park, Li, Shcheynikov, Zeng, Muallem: "NaBC1 is a ubiquitous electrogenic Na+ -coupled borate transporter essential for cellular boron homeostasis and cell growth and proliferation." in: **Molecular cell**, Vol. 16, Issue 3, pp. 331-41, (2004) (PubMed).

There are more publications referencing this product on: Product page