SLC26A4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC26A4, Polyclonal Antibody
Full Product Name	Anti-SLC26A4 Picoband antibody
Product Gene Name	anti-SLC26A4 antibody
Product Synonym Names	Pendrin; Sodium-independent chloride/iodide transporter; Solute carrier family 26 member 4; SLC26A4; PDS
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	39,267 Da
OMIM	AF030880 mRNA
3D Structure	ModBase 3D Structure for O43511
Immunogen	A synthetic peptide corresponding to a sequence of human SLC26A4 (RSLRVIVKEFQRIDVNVYFASLQDYVIEKLEQ).
Subcellular Localization	Membrane; Localizes to the apical brush border of cells in the cortical collecting ducts of the kidney.
Tissue Specificity	High expression in adult thyroid, lower expression in adult and fetal kidney and fetal brain. Not expressed in other tissues.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SLC26A4 antibody	Western Blot (WB)
Application Notes for anti-SLC26A4 antibody	WB: 0.1-0.5mug/ml
Related Product Information for anti-SLC26A4 antibody	Description: Pendrin, is an anion exchange protein that in humans is encoded by the SLC26A4 gene. Pendrin is an ion exchanger found in many types of cells in the body. High levels of pendrin expression have been identified in the inner ear and thyroid. In the thyroid, pendrin mediates a component of the efflux of iodide across the apical membrane of the thyrocyte, which is critical for the formation of thyroid hormone. The exact function of pendrin in the inner ear remains unclear; however, pendrin may play a role in acid-base balance as a chloride-bicarbonate exchanger, regulate volume homeostasis through its ability to function as a chloride-formate exchanger or indirectly modulate the calcium concentration of the endolymph. Protein Function: Sodium-independent transporter of chloride and iodide.
Other Notes	Small volumes of anti-SLC26A4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for SLC26A4 purchase	MBS1750515 is an antibody targeting SLC26A4. Also known as Anti-SLC26A4 Picoband antibody. Reactive in Human, Mouse, Rat No cross reactivity with other proteins.. Host: Rabbit.



Western Blot (WB) of anti-SLC26A4 antibody
Figure 1. Western blot analysis of SLC26A4 using anti-SLC26A4 antibody (MBS1750515). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HK-2 whole cell lysates,Lane 2: human 293T whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SLC26A4 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SLC26A4 at approximately 86KD. The expected band size for SLC26A4 is at 86KD.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC26A4. It may not necessarily be applicable to this product.

NCBI GI #	4505697
NCBI GeneID	5172
NCBI Accession #	NP_000432.1
UniProt Primary Accession #	O43511
UniProt Secondary Accession #	O43170; B7Z266
UniProt Related Accession #	O43511
GenBank Nucleotide #	NM_000441.1
NCBI Official Full Name	pendrin
NCBI Official Synonym Full Names	solute carrier family 26 member 4
NCBI Official Symbol	SLC26A4
NCBI Official Synonym Symbols	EVA; PDS; DFNB4; TDH2B
UniProt Protein Name	Pendrin
UniProt Synonym Protein Names	Sodium-independent chloride/iodide transporter; Solute carrier family 26 member 4
Protein Family	Pendrin
UniProt Gene Name	SLC26A4
UniProt Synonym Gene Names	PDS

NCBI Protein Information	pendrin
NCBI Summary for SLC26A4	Mutations in this gene are associated with Pendred syndrome, the most common form of syndromic deafness, an autosomal-recessive disease. It is highly homologous to the SLC26A3 gene; they have similar genomic structures and this gene is located 3' of the SLC26A3 gene. The encoded protein has homology to sulfate transporters. [provided by RefSeq, Jul 2008]
UniProt Comments for SLC26A4	Sodium-independent transporter of chloride and iodide.
Research Articles on SLC26A4	**1.** We performed simultaneous hearing screening and genetic screening targeting four common deafness mutations (p.V37I and c.235delC of GJB2, c.919-2A>G of SLC26A4, and the mitochondrial m.1555A>G) in 5173 newborns at a tertiary hospital between 2009 and 2015,We delineated the longitudinal auditory features of the highly prevalent GJB2 p.V37I mutation on a general population basis
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