SLC24A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC24A1, Polyclonal Antibody
Full Product Name	SLC24A1 Antibody
Product Gene Name	anti-SLC24A1 antibody
Product Synonym Names	SLC24A1; KIAA0702; NCKX1; Sodium/potassium/calcium exchanger 1; Na(+)/K(+)/Ca(2+)-exchange protein 1; Retinal rod Na-Ca+K exchanger
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	121,374 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (65914270..65948598). Location: 15q22
OMIM	603617
3D Structure	ModBase 3D Structure for O60721
Immunogen	Synthesized peptide derived from the Internal region of human NCKX1.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-SLC24A1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC24A1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SLC24A1 antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-SLC24A1 antibody	MBS7121242 is an antibody targeting SLC24A1. Also known as SLC24A1 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SLC24A1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC24A1. It may not necessarily be applicable to this product.

NCBI GI #	4759128

NCBI GeneID	9187
NCBI Accession #	NP_004718.1
UniProt Primary Accession #	O60721
UniProt Secondary Accession #	O43485; O75184
UniProt Related Accession #	O60721
GenBank Nucleotide #	NM_004727.2
NCBI Official Full Name	sodium/potassium/calcium exchanger 1 isoform 1
NCBI Official Synonym Full Names	solute carrier family 24 (sodium/potassium/calcium exchanger), member 1
NCBI Official Symbol	SLC24A1
NCBI Official Synonym Symbols	NCKX; RODX; NCKX1; CSNB1D; HsT17412
UniProt Protein Name	Sodium/potassium/calcium exchanger 1
UniProt Synonym Protein Names	Na(+)/K(+)/Ca(2+)-exchange protein 1; Retinal rod Na-Ca+K exchanger
Protein Family	Sodium/potassium/calcium exchanger
UniProt Gene Name	SLC24A1
UniProt Synonym Gene Names	KIAA0702; NCKX1
UniProt Entry Name	NCKX1_HUMAN
NCBI Protein Information	sodium/potassium/calcium exchanger 1; retinal rod Na+/Ca+/K+ exchanger; Na(+)/K(+)/Ca(2+)-exchange protein 1
NCBI Summary for SLC24A1	This gene encodes a member of the potassium-dependent sodium/calcium exchanger protein family. The encoded protein plays an important role in sodium/calcium exchange in retinal rod and cone photoreceptors by mediating the extrusion of one calcium ion and one potassium ion in exchange for four sodium ions. Mutations in this gene may play a role in congenital stationary night blindness. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for SLC24A1	SLC24A1: Critical component of the visual transduction cascade, controlling the calcium concentration of outer segments during light and darkness. Light causes a rapid lowering of cytosolic free calcium in the outer segment of both retinal rod and cone photoreceptors and the light-induced lowering of calcium is caused by extrusion via this protein which plays a key role in the process of light adaptation. Transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+). Defects in SLC24A1 are the cause of congenital stationary night blindness type 1D (CSNB1D). An autosomal recessive form of congenital stationary night blindness a non- progressive retinal disorder characterized by impaired night vision. CSNB1D is characterized by a Riggs type of electroretinogram (proportionally reduced a- and b-waves). Patients have visual acuity within the normal range and no symptoms of myopia and/or nystagmus. Belongs to the sodium/potassium/calcium exchanger family. SLC24A subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transporter, SLC family; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 15q22 Cellular Component: membrane; integral to plasma membrane; outer membrane; plasma membrane Molecular Function: protein binding; calcium, potassium:sodium antiporter activity; symporter activity Biological Process: rhodopsin mediated signaling; phototransduction, visible light; visual perception; transport; calcium ion transport; response to light intensity; ion transport; transmembrane transport Disease: Night Blindness, Congenital Stationary, Type 1d
Research Articles on SLC24A1	**1.** A mutation in SLC24A1 is implicated in autosomal-recessive congenital stationary night blindness.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/slc24a1/7121242