SLC24A3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC24A3, Polyclonal Antibody
Full Product Name	SLC24A3, NT (SLC24A3, NCKX3, Sodium/potassium/calcium exchanger 3, Na(+)/K(+)/Ca(2+)-exchange protein 3, Solute carrier family 24 member 3) (MaxLight 550)
Product Gene Name	anti-SLC24A3 antibody
Product Synonym Names	SLC24A3; NCKX3; Sodium/potassium/calcium exchanger 3; Na(+)/K(+)/Ca(2+)-exchange protein 3; Solute carrier family 24 member 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	71,992 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (19193290..19703541). Location: 20p13
OMIM	609839
3D Structure	ModBase 3D Structure for Q9HC58
Immunogen	SLC24A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-108 amino acids from the N-terminal region of human SLC24A3.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-SLC24A3 antibody	Antibodies; Transport Proteins
Applications Tested/Suitable for anti-SLC24A3 antibody	Western Blot (WB), FLISA
Application Notes for anti-SLC24A3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SLC24A3 antibody	Plasma membrane sodium/calcium exchangers are an important component of intracellular calcium homeostasis and electrical conduction. Potassium-dependent sodium/calcium exchangers such as SLC24A3 are believed to transport 1 intracellular calcium and 1 potassium ion in exchange for 4 extracellular sodium ions (Kraev et al., 2001 [PubMed 11294880]).
Product References and Citations for anti-SLC24A3 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Cheng, Y.C., et al. Circ Cardiovasc Genet 2(4):329-337(2009). Deloukas, P., et al. Nature 414(6866):865-871(2001). Kraev, A., et al. J. Biol. Chem. 276(25):23161-23172(2001).

Other Notes	Small volumes of anti-SLC24A3 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 SLC24A3 purchase	MBS6348205 is an antibody targeting SLC24A3. Also known as SLC24A3, NT (SLC24A3, NCKX3, Sodium/potassium/calcium exchanger 3, Na(+)/K(+)/Ca(2+)-exchange protein 3, Solute carrier family 24 member 3) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC24A3. It may not necessarily be applicable to this product.

NCBI GI #	31563526
NCBI GeneID	57419
NCBI Accession #	NP_065740.2
UniProt Primary Accession #	Q9HC58
UniProt Secondary Accession #	Q9BQJ9; Q9BQL7; Q9BQY3; Q9H519; B1AKV7
UniProt Related Accession #	Q9HC58
GenBank Nucleotide #	NM_020689.3
NCBI Official Full Name	sodium/potassium/calcium exchanger 3
NCBI Official Synonym Full Names	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
NCBI Official Symbol	SLC24A3
NCBI Official Synonym Symbols	NCKX3
UniProt Protein Name	Sodium/potassium/calcium exchanger 3
UniProt Synonym Protein Names	Na(+)/K(+)/Ca(2+)-exchange protein 3; Solute carrier family 24 member 3
Protein Family	Sodium/potassium/calcium exchanger
UniProt Gene Name	SLC24A3
UniProt Synonym Gene Names	NCKX3
UniProt Entry Name	NCKX3_HUMAN
NCBI Protein Information	sodium/potassium/calcium exchanger 3; sodium calcium exchanger; solute carrier family 24 member 3; Na(+)/K(+)/Ca(2+)-exchange protein 3
UniProt Comments for SLC24A3	SLC24A3: Transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+). Belongs to the sodium/potassium/calcium exchanger family. SLC24A subfamily. Protein type: Membrane protein, integral; Transporter, SLC family; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 20p13 Cellular Component: integral to membrane; plasma membrane Molecular Function: calcium, potassium:sodium antiporter activity; symporter activity Biological Process: calcium ion transport; ion transport; transmembrane transport; potassium ion transport
Research Articles on SLC24A3	**1.** NCKX3 is abundantly expressed within the human endometrium at the transcriptional and translational levels, and its level is regulated by steroid hormones (particularly estradiol) during the human menstrual cycle.

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