

Rabbit anti-Human SLC24A6 Polyclonal Antibody | anti-SLC24A6 antibody

SLC24A6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325173	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

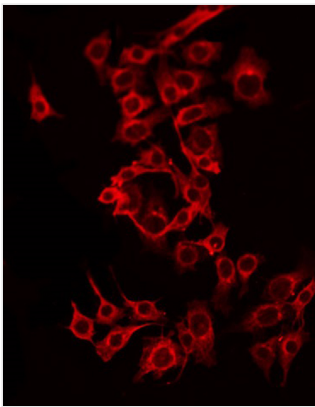
PRODUCT SYNONYMS

SLC24A6; Polyclonal Antibody; SLC24A6 Antibody; FLJ22233; Na(+)/K(+)/Ca(2+) exchange protein 6; Na(+)/K(+)/Ca(2+)-exchange protein 6; NCKX6; NCKX6_HUMAN; NCLX; Slc24a6; Sodium/potassium/calcium exchanger; Sodium/potassium/calcium exchanger 6; Solute carrier family 24 (sodium/potassium/calcium exchanger) member 6; Solute carrier family 24 member 6; anti-SLC24A6 antibody

PRODUCT SPECIFICATIONS

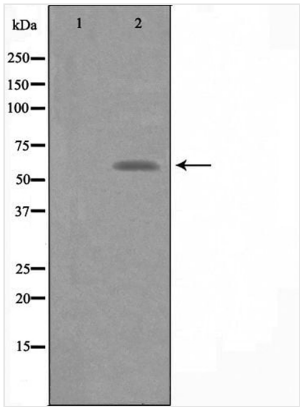
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	SLC24A6 antibody detects endogenous levels of total SLC24A6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	528
Applicable Applications for anti-SLC24A6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane
Tissue Specificity	Present in pancreatic beta-cells (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (90%), Horse (100%), Sheep (80%), Rabbit (89%), Dog (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325173 staining MCF7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from MCF-7 cells, using SLC24A6 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC24A6 antibody

Function: Mitochondrial sodium/calcium antiporter that mediates sodium-dependent calcium efflux from mitochondrion, by mediating the exchange of 3 sodium ions per 1 calcium ion (PubMed:20018762, PubMed:22829870, PubMed:23056385, PubMed:24898248, PubMed:28219928). Plays a central role in mitochondrial calcium homeostasis by mediating mitochondrial calcium extrusion: calcium efflux is essential for mitochondrial function and cell survival, notably in cardiomyocytes (By similarity). Regulates rates of glucose-dependent insulin secretion in pancreatic beta-cells during the first phase of insulin secretion: acts by mediating efflux of calcium from mitochondrion, thereby affecting cytoplasmic calcium responses (PubMed:23056385). Required for store-operated Ca2+ entry (SOCE) and Ca2+ release-activated Ca2+ (CRAC) channel regulation: sodium transport by SLC8B1 leads to promote calcium-shuttling that modulates mitochondrial redox status, thereby regulating SOCE activity (PubMed:28219928). Involved in B-lymphocyte chemotaxis (By similarity). Able to transport Ca2+ in exchange of either Li+ or Na+, explaining how Li+ catalyzes Ca2+ exchange (PubMed:15060069). In contrast to other members of the family its function is independent of K+ (PubMed:15060069). Post-translational Modifications: Phosphorylation at Ser-258 by PKA prevents calcium overload. Similarity: Belongs to the Ca(2+):cation antiporter (CaCA) (TC 2.A.19) family. SLC24A subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1060099165
NCBI GeneID	80024
NCBI Accession #	NP_001317395.1
NCBI GenBank Nucleotide #	NM_001330466.1
UniProt Accession #	Q6J4K2; Q4KMS9; Q6J4K1; Q9H6I8; A6NP50
Molecular Weight	Observed: 60 kD Predicted: 65 kDa
NCBI Official Full Name	mitochondrial sodium/calcium exchanger protein isoform 2
NCBI Official Synonym Full Names	solute carrier family 8 member B1
NCBI Official Symbol	SLC8B1
NCBI Official Synonym Symbols	NCLX; NCKX6; SLC24A6
NCBI Protein Information	mitochondrial sodium/calcium exchanger protein
UniProt Protein Name	Mitochondrial sodium/calcium exchanger protein

UniProt Gene Name	SLC8B1
UniProt Synonym Gene Names	NCKX6By similarityManual assertion inferred from sequence similarity to UniProtKB:Q925Q3 (NCLX_MOUSE); NCLX1 PublicationManual assertion based on opinion in Ref.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/slc24a6-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325173>