

SLC24A6 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12368

Specification

SLC24A6 antibody - middle region - Product Information

Application	WB
Primary Accession	Q6J4K2
Other Accession	NM_024959 , NP_079235
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

SLC24A6 antibody - middle region - Additional Information

Gene ID 80024

Alias Symbol	FLJ22233, NCKX6, NCLX, SLC24A6
Other Names	
Sodium/potassium/calcium exchanger 6, mitochondrial, Na(+)/K(+)/Ca(2+)-exchange protein 6, Sodium/calcium exchanger protein, mitochondrial, Solute carrier family 24 member 6, Solute carrier family 8 member B1, SLC8B1, NCKX6, NCLX, SLC24A6	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-SLC24A6 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

SLC24A6 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

SLC24A6 antibody - middle region - Protein Information

Name SLC8B1 ([HGNC:26175](#))

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:15060069, PubMed:20018762, PubMed:22829870, PubMed:22829870)

[23056385](http://www.uniprot.org/citations/23056385), PubMed: [24898248](http://www.uniprot.org/citations/24898248), PubMed: [28219928](http://www.uniprot.org/citations/28219928), PubMed: [28130126](http://www.uniprot.org/citations/28130126)). 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](http://www.uniprot.org/citations/23056385)). Required for store-operated Ca^{2+} entry (SOCE) and Ca^{2+} release-activated Ca^{2+} (CRAC) channel regulation: sodium transport by SLC8B1 leads to promote calcium-shuttling that modulates mitochondrial redox status, thereby regulating SOCE activity (PubMed: [28219928](http://www.uniprot.org/citations/28219928)). Involved in B-lymphocyte chemotaxis (By similarity). Able to transport Ca^{2+} in exchange of either Li^{+} or Na^{+} , explaining how Li^{+} catalyzes Ca^{2+} exchange (PubMed: [15060069](http://www.uniprot.org/citations/15060069), PubMed: [28130126](http://www.uniprot.org/citations/28130126)). In contrast to other members of the family its function is independent of K^{+} (PubMed: [15060069](http://www.uniprot.org/citations/15060069)).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

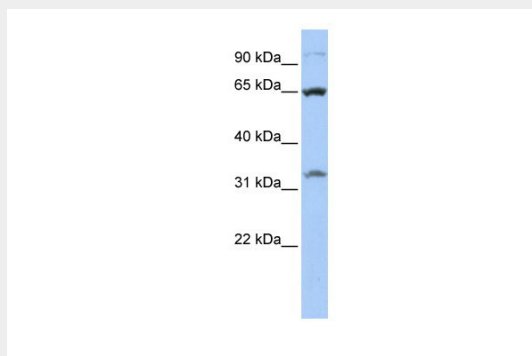
Present in pancreatic beta-cells (at protein level).

SLC24A6 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC24A6 antibody - middle region - Images



WB Suggested Anti-SLC24A6 Antibody Titration: 0.2-1 $\mu\text{g/ml}$

ELISA Titer: 1:62500
Positive Control: 721_B cell lysate

SLC24A6 antibody - middle region - References

Palty, R., (2004) J. Biol. Chem. 279(24), 25234-25240 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.