

Rabbit SLC8A1 Polyclonal Antibody | anti-SLC8A1 antibody

SLC8A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328182	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

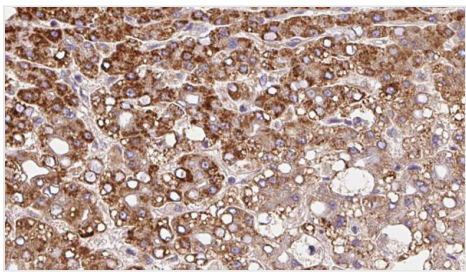
PRODUCT SYNONYMS

SLC8A1; Polyclonal Antibody; SLC8A1 Antibody; CNC; DKFZp779F0871; MGC119581; Na(+)/Ca(2+)-exchange protein 1; Na+/Ca2+ exchange protein 1; Na+/Ca2+ exchanger; NAC1_HUMAN; NCX 1; NCX; NCX1; SLC8A1 protein; Sodium Calcium Exchanger; Sodium/calcium exchanger 1; Solute carrier family 8 (sodium/calcium exchanger) member 1; Solute carrier family 8 member 1; anti-SLC8A1 antibody

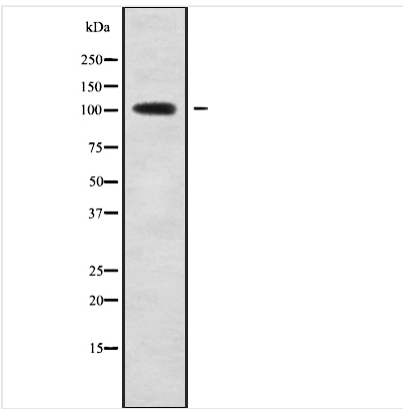
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SLC8A1 antibody detects endogenous levels of total SLC8A1
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.
Sequence Length	968
Applicable Applications for anti-SLC8A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SLC8A1, corresponding to a region within the internal amino acids.
Subcellular Location	Cell Membrane
Tissue Specificity	Detected primarily in heart and at lower levels in brain (PubMed:1374913). Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung (PubMed:1476165).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA328182 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis SLC8A1 using K562 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-SLC8A1 antibody	Function: Mediates the exchange of one Ca²⁺ ion against three to four Na⁺ ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca²⁺ levels and Ca²⁺-dependent cellular processes (PubMed:1374913, PubMed:11241183, PubMed:1476165). Contributes to Ca²⁺ transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca²⁺ levels due to release of Ca²⁺ stores from the endoplasmic reticulum. SLC8A1 mediates the export of Ca²⁺ from the cell during the next phase, so that cytoplasmic Ca²⁺ levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions. Similarity: The cytoplasmic Calx-beta domains bind the regulatory Ca²⁺. The first Calx-beta domain can bind up to four Ca²⁺ ions. The second domain can bind another two Ca²⁺ ions that are essential for calcium-regulated ion exchange. Belongs to the Ca(2+):cation antiporter (CaCA) (TC 2.A.19) family. SLC8 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	163914369
NCBI GeneID	6546
NCBI Accession #	NP_001106271.1
NCBI GenBank Nucleotide #	NM_001112800.1
UniProt Accession #	P32418; O95849; Q4QQG6; Q587I6; Q59GN4; Q9UBL8; Q9UD55; Q9UDN1; Q9UDN2; Q9UKX6; A8K6N1; D6W595
Molecular Weight	109 kDa
NCBI Official Full Name	sodium/calcium exchanger 1 isoform B
NCBI Official Synonym Full Names	solute carrier family 8 member A1
NCBI Official Symbol	SLC8A1
NCBI Official Synonym Symbols	NCX1
NCBI Protein Information	sodium/calcium exchanger 1
UniProt Protein Name	Sodium/calcium exchanger 1
UniProt Gene Name	SLC8A1

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.