

Rabbit anti-Human NCX1/SLC8A1 Polyclonal Antibody | anti-NCX1/SLC8A1 antibody

Anti-NCX1/SLC8A1 Antibody Picoband

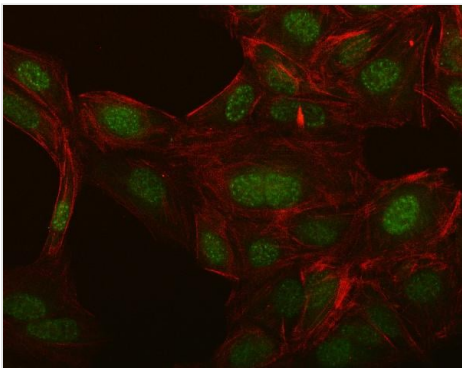
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127202	Rabbit	Human	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

NCX1/SLC8A1; Polyclonal Antibody; Anti-NCX1/SLC8A1 Antibody Picoband; AF4/FMR2 family member 4; transient receptor potential cation channel subfamily V member 3; Transient receptor potential cation channel subfamily V member 3; TrpV3; Vanilloid receptor-like 3; VRL-3; TRPV3; anti-NCX1/SLC8A1 antibody

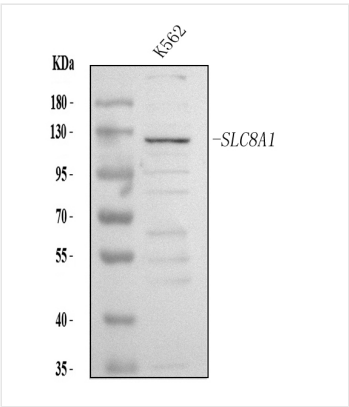
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Abundantly Expressed in CNS. Widely expressed at low levels. Detected in dorsal root ganglion. Expressed in the keratinocyte layers of the outer root sheath and, to lesser extent, to the matrix of the hair follicles.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NCX1/SLC8A1 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	E coli-derived human NCX1/SLC8A1 recombinant protein (Position: E301-Q686).
Subcellular Localization	Membrane. Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Putative receptor-activated non-selective calcium permeant cation channel. It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius. Activation exhibits an outward rectification. May associate with TRPV1 and may modulate its activity. Is a negative regulator of hair growth and cycling: TRPV3-coupled signaling suppresses keratinocyte proliferation in hair follicles and induces apoptosis and premature hair follicle regression.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of SLC8A1 using anti-SLC8A1 antibody (AAA127202).SLC8A1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SLC8A1 Antibody (AAA127202) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The tissue section was developed using Phalloidin-iFluor 594 Conjugated. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NCX1/SLC8A1 using anti-NCX1/SLC8A1 antibody (AAA127202).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NCX1/SLC8A1 antigen affinity purified polyclonal antibody (#AAA127202) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NCX1/SLC8A1 at approximately 120 kDa. The expected band size for NCX1/SLC8A1 is at 120 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NCX1/SLC8A1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NCX1/SLC8A1 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Transcription; Cell Biology; Transcription Factors; Cell Cycle
References	1. Ebert, A. M., Hume, G. L., Warren, K. S., Cook, N. P., Burns, C. G., Mohideen, M. A., Siegal, G., Yelon, D., Fishman, M. C., Garrity, D. M. Calcium extrusion is critical for cardiac morphogenesis and rhythm in embryonic zebrafish hearts. Proc. Nat. Acad. Sci. 102: 17705-17710, 2005.2. Hilge, M., Aelen, J., Vuister, G. W. Ca(2+) regulation in the Na(+)/Ca(2+) exchanger involves two markedly different Ca(2+) sensors. Molec. Cell 22: 15-25, 2006.3. Iwamoto, T., Kita, S., Zhang, J., Blaustein, M. P., Arai, Y., Yoshida, S., Wakimoto, K., Komuro, I., Katsuragi, T. Salt-sensitive hypertension is triggered by Ca(2+) entry via Na+/Ca+ exchanger type-1 in vascular smooth muscle. Nature Med. 10: 1193-1199, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1008973
NCBI GeneID	6546
UniProt Accession #	P32418; O95849; Q4QQG6; Q587I6; Q59GN4; Q9UBL8; Q9UD55; Q9UDN1; Q9UDN2; Q9UKX6; A8K6N1; D6W595
Molecular Weight	108,547 Da
NCBI Official Full Name	Na+/Ca2+ exchanger
NCBI Official Synonym Full Names	solute carrier family 8 (sodium/calcium exchanger), member 1
NCBI Official Symbol	SLC8A1
NCBI Official Synonym Symbols	NCX1

NCBI Protein Information	sodium/calcium exchanger 1; Na ⁺ /Ca ⁺⁺ exchanger; Na ⁺ /Ca ²⁺ exchanger; Na(+)/Ca(2+)-exchange protein 1
UniProt Protein Name	Sodium/calcium exchanger 1
UniProt Gene Name	SLC8A1
UniProt Synonym Gene Names	CNC; NCX1
UniProt Entry Name	NAC1_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ncx1-slc8a1-antibody-western-blot-immunofluorescence-immunocytochemistry-elisa/127202>