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## Datasheet for ABIN7043755 anti-SLC8A2 antibody (3rd Intracellular Loop)





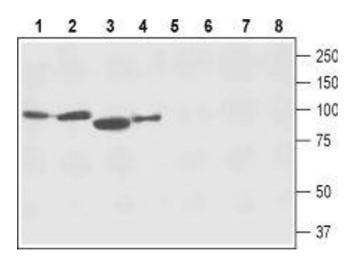
## Overview

Quantity:	25 µL
Target:	SLC8A2
Binding Specificity:	3rd Intracellular Loop, AA 486-499
Reactivity:	Rat, Mouse, Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RVGDAQGMFEPDGG, corresponding to amino acid residues 486-499 of rat NCX2
Isotype:	IgG
Characteristics:	Anti-NCX2 (SLC8A2) Antibody (ABIN7043755, ABIN7044877 and ABIN7044878)) is a highly specific antibody directed against an epitope of the rat Na+/Ca2+ exchange protein 2. The antibody can be used in western blot ans immunohistochemistry applications. It has been designed to recognize NCX2 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.
Target Details	
Target:	SLC8A2

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Target Details	
Alternative Name:	NCX2 (SLC8A2) (SLC8A2 Products)
Background:	Alternative names: NCX2 (SLC8A2), Sodium/calcium exchanger 2, Na+/Ca2+ exchange protein 2
Gene ID:	140447
NCBI Accession:	NM_015063
UniProt:	P48768
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	25 $\mu L$ , 50 $\mu L$ or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

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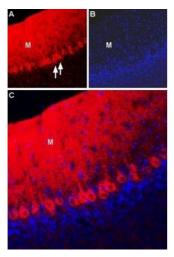


## Western Blotting

**Image 1.** Western blot analysis of rat brain membranes (lanes 1 and 5), mouse brain membranes (lanes 2 and 6), rat skeletal muscle lysate (lanes 3 and 7) and human SH-SY5Y neuroblastoma cell lysate (lanes 4 and 8): - 1-4. Anti-NCX2 (SLC8A2) Antibody (ABIN7043755, ABIN7044877 and ABIN7044878), (1:200).5-8. Anti-NCX2 (SLC8A2) Antibody, preincubated with NCX2/SLC8A2 Blocking Peptide (#BLP-NX012).

## Immunohistochemistry

**Image 2.** Expression of NCX2 in rat cerebellum -Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using Anti-NCX2 (SLC8A2) Antibody (ABIN7043755, ABIN7044877 and ABIN7044878), (1:100). A. NCX2 staining (red) is expressed in the molecular layer (M) and Purkinje cells (arrows). B. DAPI counterstain (blue) displays the layout of cerebellar layers. C. Merge of A and B demonstrates restriction of NCX2 expression to the molecular layer and Purkinje cells.



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