

Datasheet for ABIN6148050
anti-SLC8A1 antibody (AA 250-520)

5 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	SLC8A1
Binding Specificity:	AA 250-520
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC8A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 250-520 of human SLC8A1 (NP_066920.1).
Sequence:	WVADRRLLFY KYVYKRYRAG KQRGMIIHE GDRPSSKTEI EMDGKVVNSH VENFLDGALV LEVDERDQDD EEARREMARI LKELKQKHPD KEIEQLIELA NYQVLSQQQK SRAFYRIQAT RLMTGAGNIL KRHAADQARK AVSMHEVNTE VTENDPVSKI FFEQGTQYQCL ENCGTVALTI IRRGDLTNT VFVDFRTEDG TANAGSDYEF TEGTVVFKPG DTQKEIRVGI IDDDIFEDE NFLVHLSNVK VSSEASEDGI LEANHVSTLA C
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

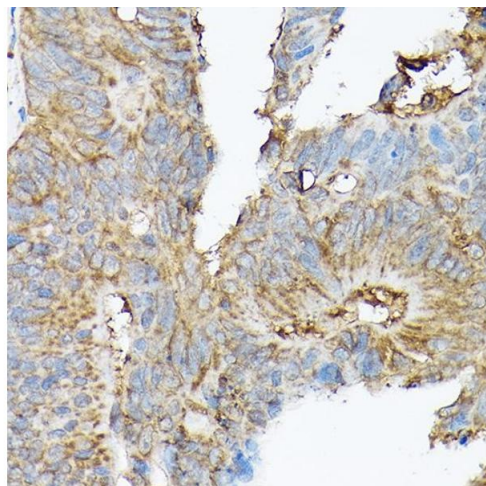
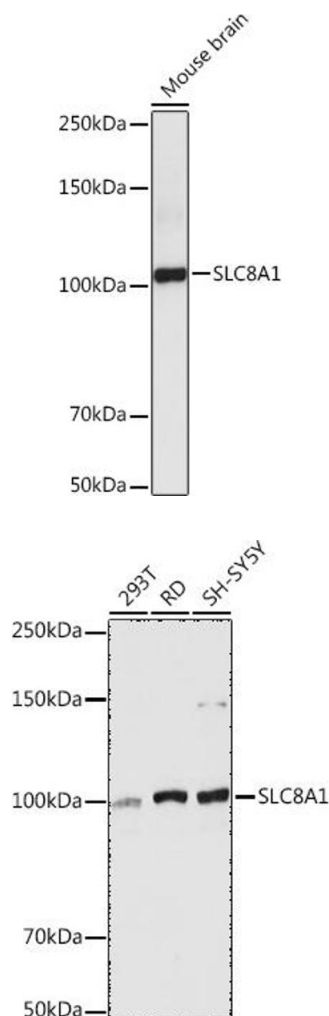
Target:	SLC8A1
Alternative Name:	SLC8A1 (SLC8A1 Products)
Background:	<p>In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) exchanger is the primary mechanism by which the Ca(2+) is extruded from the cell during relaxation. In the heart, the exchanger may play a key role in digitalis action. The exchanger is the dominant mechanism in returning the cardiac myocyte to its resting state following excitation.,SLC8A1,NCX1,Cancer,Signal Transduction,Endocrine & Metabolism,Neuroscience,Calcium Signaling,Cardiovascular,Hypoxia,Heart,Contractility,SLC8A1</p>
Molecular Weight:	104 kDa/107 kDa/108 kDa
Gene ID:	6546
UniProt:	P32418
Pathways:	Myometrial Relaxation and Contraction

Application Details

Application Notes:	WB,1:1000 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of Mouse brain , using SLC8 antibody (ABIN6132664, ABIN6148050, ABIN6148052 and ABIN6221228) at 1:5000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 60s.

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using SLC8 antibody (ABIN6132664, ABIN6148050, ABIN6148052 and ABIN6221228) at 1:5000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.

Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon carcinoma using SLC8 Rabbit pAb (ABIN6132664, ABIN6148050, ABIN6148052 and ABIN6221228) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6148050.