

Datasheet for ABIN731198
anti-SLC8A1 antibody (AA 801-900)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	SLC8A1
Binding Specificity:	AA 801-900
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC8A1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NCX1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Horse,Chicken,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	SLC8A1
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Target Details

Alternative Name:	NCX1/SLC8A1 (SLC8A1 Products)
Background:	<p>Synonyms: Na⁺/Ca²⁺exchanger 1, CNC, DKFZp779F0871, MGC119581 , FLJ37694, FLJ43417, Na⁺/Ca²⁺ exchange protein 1, Na⁺/Ca²⁺ exchanger, NCX 1, NCX, SLC8A1, SLC8A1 protein , Sodium Calcium Exchanger, Sodium/calcium exchanger 1, Solute carrier family 8 member 1.</p> <p>Background: 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.[supplied by OMIM].</p>
Gene ID:	6546
Pathways:	Myometrial Relaxation and Contraction

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 IP(1-2 µg)
Restrictions:	For Research Use only

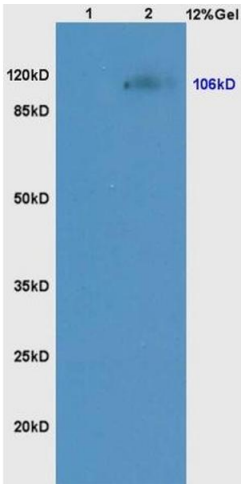
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



SDS-PAGE

Image 1. Lane 1: mouse kidney lysates Lane 2: mouse liver lysates probed with Anti NCX1/SLC8A1 Polyclonal Antibody, Unconjugated (ABIN731198) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 106kD. Observed band size: 106kD.