

KO583

For research use only

Anti Rat panNCX Monoclonal Antibody

Clone No. 2S1-pan

This antibody was prepared by Dr. Takahiro Iwamoto, Fukuoka University.

Code No. KO583

Terget NCX1, NCX2, NCX3

Category Transporter
Gene ID 140447

Primary Source -

Synonyms SLC8A2; NCX2

Type Monoclonal Antibody

Immunogen Fusion protein of Rat NCX2

Raised inMouseMyelomaP3U1Clone number2S1-panPurificationProteinG

Source Serum-free medium

Isotype IgG1,κ

Cross Reactivity Human, Mouse

LabelUnlabeledConcentration0.25 mg/mL

Contents (Volume) 50 µg (200 µL/vial)

Buffer PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as

a bacteriostat]

Storage Store at - 20 long term, store at 4 short term. Avoid

repeated freeze-thaw cycles.

Application WB,IHC

ELISA	WB	IHC	ICC
Not tested	0.1	0.1	Not tested
IP	FCM	IF	Neutralization
Not tested	Not tested	Not tested	Not tested

(µg/mL)

Reference

- 1. Iwamoto T et al. Protein kinase C-dependent regulation of Na+/Ca2+ exchanger isoforms NCX1 and NCX3 does not require their direct phosphorylation. Biochemistry 37(49):17230-17238, 1998. *Application Reference
- 2. Iwamoto T and Kita S. YM-244769, a novel Na+/Ca2+ exchange inhibitor that preferentially inhibits NCX3, efficiently protects against hypoxia/reoxygenation-induced SH-SY5Y neuronal cell damage. Mol Pharmacol 70(6):2075-2083, 2006. *Application Reference
- 3. Li JP et al. Three Na+/Ca2+ exchanger (NCX) variants are expressed in mouse osteoclasts and mediate calcium transport during bone resorption. Endocrinology 148(5):2116-2125, 2007. *Application Reference

UniPlot Summary

//Function: Rapidly transports Ca2+ during excitation-contraction coupling. Ca2+ is extruded from the cell during relaxation so as to prevent overloading of intracellular stores.

//Subcellular location: Membrane; Multi-pass membrane protein.

//Tissue specificity: Brain and skeletal muscle.

//Sequence similarities: Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily. Contains 2 Calx-beta domains.

