

KO581

For research use only

Anti Rat NCX2 Monoclonal Antibody

Clone No. 2S1-6

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

Code No.	KO581
Target	NCX2
Category	Transporter
Gene ID	140447
Primary Source	-
Synonyms	SLC8A2; NCX2
Type	Monoclonal Antibody
Immunogen	Fusion protein of Rat NCX2
Raised in	Mouse
Myeloma	P3U1
Clone number	2S1-6
Purification	ProteinG
Source	Serum-free medium
Isotype	IgG1, κ
Cross Reactivity	Human, Mouse
Label	Unlabeled
Concentration	0.25 mg/mL
Contents (Volume)	50 μ g (200 μ L/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

(μ g/mL)

Reference

- 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
- 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
- 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.