

KO585

For research use only

Anti Rat NCX2 Polyclonal Antibody

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

Code No. KO585
Target NCX2
Category Transporter
Gene ID 140447
Primary Source -
Synonyms SLC8A2; NCX2

Type Polyclonal Antibody
Immunogen Fusion protein of Rat NCX2

Raised in Rabbit (NZW)
Myeloma -
Clone number -
Purification Antigen Affinity
Source Rabbit Serum
Isotype -
Cross Reactivity Human, Mouse
Label Unlabeled
Concentration 0.25 mg/mL
Contents (Volume) 25 µg (100 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.