

KO588

For research use only

Anti Rat NCKX2 Polyclonal Antibody

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

Code No.	KO588
Target	NCKX2
Category	Transporter
Gene ID	84550
Primary Source	-
Synonyms	SLC24A2; NCKX2
Type	Polyclonal Antibody
Immunogen	Fusion protein of Rat NCKX2
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. Molecular determinants of Na⁺/Ca²⁺ exchange (NCX1) inhibition by SEA0400. J Biol Chem 279(9):7544-7553, 2004.
2. Uehara A et al. Different cation sensitivities and binding site domains of Na⁺-Ca²⁺-K⁺ and Na⁺-Ca²⁺ exchangers. J Cell Physiol 203(2):420-428, 2005.

UniPlot Summary

//Function: Critical component of the visual transduction cascade, controlling the calcium concentration of outer segments during light and darkness. Light causes a rapid lowering of cytosolic free calcium in the outer segment of both retinal rod and cone photoreceptors and the light-induced lowering of calcium is caused by extrusion via this protein which plays a key role in the process of light adaptation. Transports 1 Ca²⁺ and 1 K⁺ in exchange for 4 Na⁺.

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

//Tissue specificity: Expressed abundantly in all regions of the brain and weakly in the eye, large intestine and adrenal tissue.

//Sequence similarities: Belongs to the sodium/potassium/calcium exchanger family. SLC24A subfamily.