

KO580

For research use only

Anti Dog NCX1 Monoclonal Antibody

Clone No. 6H3-2b

			This antibody w	as prepared by Dr.	Takahiro Iwamoto, Fukuoka University
Code No.	KO580				
Terget	NCX1				
Category	Transporter				
Gene ID	493808				
Primary Source	-				
Synonyms	SLC8A1; NCX1				
Туре	Monoclonal Antibody				
Immunogen	Fusion protein of Dog NCX1				
Raised in	Mouse				
Myeloma	P3U1				
Clone number	6H3-2b				
Purification	ProteinG				
Source	Serum-free medium				
Isotype	lgG1,κ				
Cross Reactivity	Human, Mouse, Rat				
Label	Unlabeled				
Concentration	0.25 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	

 $(\mu g/mL)$

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

 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: Cell membrane; Multi-pass membrane protein.

//Tissue specificity: Cardiac sarcolemma.

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

