Immunotag™ NCX1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5103
Product Description	Immunotag™ NCX1 Polyclonal Antibody
Size	50 μg, 100 μg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	NCX1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from NCX1, at AA range: 270-350
Specificity	NCX1 Polyclonal Antibody detects endogenous levels of NCX1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SLC8A1
Accession No.	P32418 P70414 Q01728
Alternate Names	SLC8A1; CNC; NCX1; Sodium/calcium exchanger 1; Na(+)/Ca(2+)-exchange protein 1

Antibody Specification	
Description	solute carrier family 8 member A1(SLC8A1) Homo sapiens In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) exchanger is the primary mechanism by which the Ca(2+) is extruded from the cell during relaxation. In the heart, the exchanger may play a key role in digitalis action. The exchanger is the dominant mechanism in returning the cardiac myocyte to its resting state following excitation.[supplied by OMIM, Apr 2004],
Cell Pathway/ Category	Calcium, Cardiac muscle contraction, Hypertrophic cardiomyopathy (HCM), Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy,
Protein Expression	Airway smooth muscle,Brain,Heart,Liver,PCR rescued clones,Placenta,
Subcellular Localization	mitochondrion,microtubule,plasma membrane,integral component of plasma membrane,intercalated disc,membrane,integral component of membrane,Z disc,T-tubule,sarcolemma,dendritic spine,dendritic shaft,
Protein Function	Additional isoforms seem to exist,enzyme regulation:By ATP.,function:Rapidly transports Ca(2+) during excitation-contraction coupling. Ca(2+) is extruded from the cell during relaxation so as to prevent overloading of intracellular stores.,similarity:Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily.,similarity:Contains 2 Calxbeta domains.,tissue specificity:Cardiac sarcolemma.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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