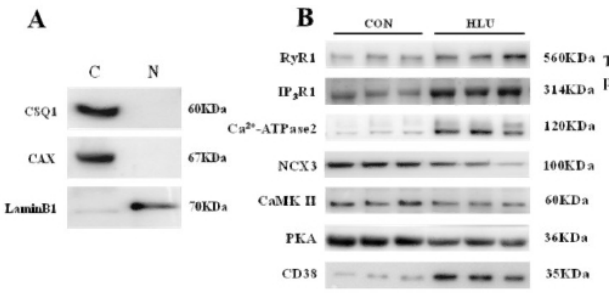
NAC3 Polyclonal Antibody

Catalog No	YP-Ab-06205
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	SLC8A3 NCX3
Protein Name	Sodium/calcium exchanger 3 (Na(+)/Ca(2+)-exchange protein 3)
Immunogen	Synthesized peptide derived from human protein . at AA range: 530-610
Specificity	NAC3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	101kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Perikaryon . Cell projection, dendrite . Cell projection, dendritic spine . Cell membrane, sarcolemma . Cytoplasm, sarcoplasm . Cell junction . Mitochondrion outer membrane ; Multi-pass membrane protein . Cytoplasm, perinuclear region . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Detected at neuromuscular junctions. .
Tissue Specificity	Isoform 2 is expressed in brain and skeletal muscle. Isoform 3 is expressed in excitable cells of brain, retina and skeletal muscle. Isoform 4 is expressed in skeletal muscle.
Function	enzyme regulation:By intracellular calcium ions.,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 Calx-beta domains.,tissue specificity:Isoform 2 is expressed in brain and skeletal muscle; Isoform 3 is expressed in excitable cells of brain, retina and skeletal muscle; Isoform 4 is expressed in skeletal muscle.,
Background	This gene encodes a member of the sodium/calcium exchanger integral membrane protein family. Na+/Ca2+ exchange proteins are involved in

	maintaining Ca2+ homeostasis in a wide variety of cell types. The protein is regulated by intracellular calcium ions and is found in both the plasma membrane and intracellular organellar membranes, where exchange of Na+ for Ca2+ occurs in an electrogenic manner. Alternative splicing has been observed for this gene and multiple variants have been described. [provided by RefSeq, Aug 2013],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



New Findings: Hindlimb Unloading Causes Nucleocytoplasmic Ca2+ Overload and DNA Damage in Skeletal Muscle Cells Huajian Yang, Huiping Wang, Fangyang Pan, Yuxi Guo, Liqi Cao, Wenjing Yan, Yunfang Gao WB Rat muscle cell