

Datasheet for ABIN6137314

anti-ATP2A1/SERCA1 antibody (AA 350-600)



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1 Image

Overview

Quantity:	100 µL
Target:	ATP2A1/SERCA1 (ATP2A1)
Binding Specificity:	AA 350-600
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP2A1/SERCA1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 350-600 of human SERCA1/SERCA1/ATP2A1 (NP_775293.1).
Sequence:	SDKTGTLTTN QMSVCKMFII DKVDGDI ^{CLL} NEFSITGSTY APEGEVLKND KPVRPGQYDG LVELATICAL CNDSSLDFNE AKGVYEKVG ^E ATETALTTLV EKMNVFNTDV RLSK ^{VERAN} ACNSVIRQLM KKEFTLEFSR DRKSMSVYCS PAKSSRAAVG NKMFVKG ^{APE} GVIDRCNYVR VGTTTRVPLTG PVKEKIMAVI KEWGTGRDTL RCLALAT ^{RDT} PPKREEMVLD DSARFLEY ^{ET} DLTFVG ^{VGM} L
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

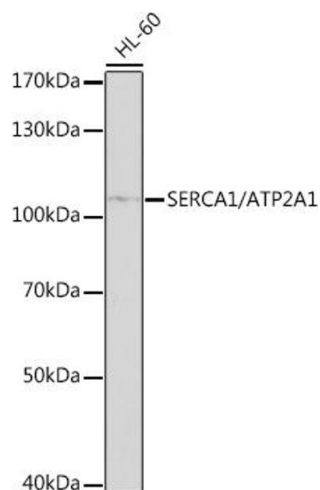
Target:	ATP2A1/SERCA1 (ATP2A1)
Alternative Name:	ATP2A1 (ATP2A1 Products)
Background:	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms.,ATP2A1,ATP2A,SERCA1,Cancer,Signal Transduction,Endocrine & Metabolism,Neuroscience,Calcium Signaling,Neurodegenerative Diseases,Cardiovascular,Heart,Cardiovascular diseases,Hypertension,Heart disease,ATP2A1
Molecular Weight:	95 kDa/109 kDa/110 kDa
Gene ID:	487
UniProt:	O14983
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB,1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of HL-60 cells, using SERC/SERC/ antibody (0104) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.