

产品名称: SERCA1 Rabbit Polyclonal Antibody

产品货号: APRab17747

产品概述 (Summary)

描述(Description)	Rabbit polyclonal Antibody
宿主(Host)	Rabbit
应用(Application)	WB,IHC,ICC/IF,ELISA
种属反应(Reactivity)	Human,Mouse,Rat,Salamander,Other
偶联物(Conjugation)	Unconjugated
修饰(Modification)	Unmodified
同种型(Isotype)	IgG
克隆(Clonality)	Polyclonal
剂型(Form)	Liquid
保存条件(Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液(Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化 (Purification)	Affinity purification

产品应用(Application)

稀释比(Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
分子量(Molecular Weight)	100kDa

抗原信息(Antigen Information)

基因名(Gene Name)	ATP2A1
别名(Alternative Names)	ATP2A1; Sarcoplasmic/endoplasmic reticulum calcium ATPase 1; SERCA1; SR Ca(2+)-ATPase 1; Calcium pump 1; Calcium-transporting ATPase sarcoplasmic reticulum type; fast twitch skeletal muscle isoform; Endoplasmic reticulum class 1/2 Ca(2+) AT
基因 ID(Gene ID)	487.0
SwissProt ID	O14983
免疫原(Immunogen)	The antiserum was produced against synthesized peptide derived from human ATP2A1. AA range:548-597

研究背景 (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. [provided by RefSeq, Oct 2013], catalytic activity: $\text{ATP} + \text{H}_2\text{O} + \text{Ca}^{2+}(\text{Cis}) = \text{ADP} + \text{phosphate} + \text{Ca}^{2+}(\text{Trans})$, developmental stage: Isoform SERCA1A accounts for more than 99% of SERCA1 isoforms expressed in adult, while isoform SERCA1B predominates in neo-natal fibers, disease: Defects in ATP2A1 are the cause of Brody disease (BD) [MIM:601003]. BD is an autosomal recessive myopathy characterized by increasing impairment of relaxation of fast twitch skeletal muscle during exercise, enzyme regulation: Reversibly inhibited by phospholamban (PLN) at low calcium concentrations. Dephosphorylated PLN decreases the apparent affinity of the ATPase for calcium. This inhibition is regulated by the phosphorylation of PLN, function: This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction, induction: Increased contractile activity leads to decrease SERCA1 expression, while decreased contractile activity leads to increase of SERCA1 expression, similarity: Belongs to the cation transport ATPase (P-type) family, similarity: Belongs to the cation transport ATPase (P-type) family. Type IIA subfamily, subunit: Associated with sarcolipin (SLN) and phospholamban (PLN), tissue specificity: Skeletal muscle, fast twitch muscle (type II) fibers,

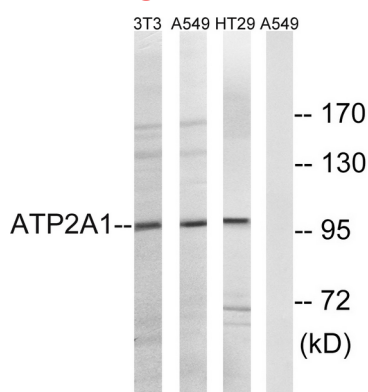
研究领域 (Research Area)

Calcium; Alzheimer's disease;

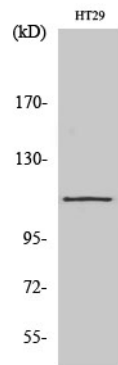
注意事项 (Note)

For research use only.

图片 (Image Data)



Western blot analysis of lysates from HT-29, A549, and NIH/3T3 cells, using ATP2A1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using SERCA1 Polyclonal Antibody diluted at 1 : 2000

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产品类别	产品货号	产品名称
WB 解决方案	RA10020	2h 极速 WB 即用型全流程试剂盒
	RA10021	4h 快速 WB 即用型全流程试剂盒
	RA10042	5h 畅享版 WB 全流程试剂盒
	RA10037	校准级彩色预染蛋白 Marker (8-180kDa)
	RA10038	校准级彩色预染蛋白 Marker (10-250kDa)
	RA10039	校准级高分子彩色预染蛋白 Marker (25-400kDa)
TSA 多重荧光染色试剂盒	RA10008	TSA 双标三色多重荧光染色试剂盒 (mIHC)
	RA10009	TSA 三标四色多重荧光染色试剂盒 (mIHC)
	RA10010	TSA 四标五色多重荧光染色试剂盒 (mIHC)
	RA10011	TSA 五标六色多重荧光染色试剂盒 (mIHC)
	RA10012	TSA 六标七色多重荧光染色试剂盒 (mIHC)
IHC 检测试剂盒	RA10006	HRP Anti-Mouse/Rabbit IHC Detection System
	RA10007	Polymer-HRP Anti-Mouse/Rabbit IHC Detection System
抗体标记试剂盒	RE80004p	辣根过氧化物酶(HRP)抗体标记试剂盒
	RE80002q	Sulfo-NHS-生物素标记试剂盒
	RE80007p	Cy3 荧光素标记试剂盒
	RE80011p	Fluor488 荧光素标记试剂盒
	RE80017p	Fluor750 荧光素标记试剂盒
	RE80005p	藻红蛋白(R-PE) 抗体快速标记试剂盒
	RE80040	PE-Cy7 串联染料抗体快速标记试剂盒
稳转细胞系构建服务 (免费赠送全膜 WB 验证)	TS-0001	过表达稳转细胞系构建
	TS-0002	敲低稳转细胞系构建
	TS-0003	敲除细胞系构建

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