

## SERCA2 Polyclonal Antibody

Catalog No :	YT5451
Reactivity :	Human;Mouse;Rat;Chicken
Applications :	WB;IHC;IF;ELISA
Target :	SERCA2
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Thyroid hormone signaling pathway;>>Pancreatic secretion;>>Alzheimer disease;>>Spinocerebellar ataxia;>>Pathways of neurodegeneration - multiple diseases;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy;>>Diabetic cardiomyopathy
Gene Name :	ATP2A2
Protein Name :	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
Human Gene Id :	488
Human Swiss Prot	P16615
No : Mouse Gene Id :	11938
Mouse Curice Dret	055142
No :	00000
Rat Gene Id :	_ 29693
Rat Swiss Prot No :	P11507
Immunogen :	The antiserum was produced against synthesized peptide derived from the C- terminal region of human ATP2A2. AA range:841-890
Specificity :	SERCA2 Polyclonal Antibody detects endogenous levels of SERCA2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.



Best Tools for immunology Research		
Source :	Polyclonal, Rabbit,IgG	
Dilution :	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000 IF 1:50-200	
Purification :	I he antibody was attinity-purified from rabbit antiserum by attinity-	
Concentration :	1 mg/ml	
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)	
Observed Band :	115kD	
Cell Pathway :	Calcium;Cardiac muscle contraction;Alzheimer's disease;Hypertrophic	
	cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy	
	(An VC), Dilated cardiolityopatity,	
Background ·	This gene encodes one of the SERCA $Ca(2+)$ -ATPases, which are intracellular	
Buonground .	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 into the sarcoplasmic reticulum lumen, and is involved in	
	White disease, also known as keratosis follicularis, an autosomal dominant skin	
	disorder characterized by loss of adhesion between epidermal cells and abnormal	
	keratinization. Alternative splicing results in multiple transcript variants encoding	
	different isoloritis. [provided by ReiSeq, Oct 2006],	
Function :	alternative products: SEBCA2 transcripts differ only in their 3'-LITB region and	
i unction .	are expressed in a tissue-specific manner, catalytic activity: $ATP + H(2)O +$	
	Ca(2+)(Cis) = ADP + phosphate + Ca(2+)(Trans)., disease: Defects in ATP2A2	
	are a cause of acrokeratosis verruciformis (AKV) [MIM:101900]; also known as	
	an autosomal dominant trait. Its onset is early in life with multiple flat-topped, flesh-	
	colored papules on the hands and feet, punctate keratoses on the palms and	
	soles, with varying degrees of nail involvement. The histopathology shows a distinctive pattern of epidermal features with hyperkeratesis, hypergrapulasis, and	
	acanthosis together with papillomatosis. These changes are frequently	
	associated with circumscribed elevations of the epidermis that are said to	
	resemble church spires. There are no feature	
Cubeelluler	Endepleanie ratioulum membrane - Multi nece neuroburus sustain	
Subcellular	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Sarcoplasmic reticulum membrane : Multi-pass membrane protein	
Expression :	Isoform 1 is widely expressed in smooth muscle and nonmuscle tissues such as	
•	in adult skin epidermis, with highest expression in liver, pancreas and lung, and	
	Intermediate expression in brain, kidney and placenta. Also expressed at lower	



	heart and slow twitch skeletal muscle. Expression of isoform 3 is predominantly restricted to cardiomyocytes and in close proximity to the sarcolemma. Both isoforms are mildly expressed in lung, kidney, liver, pancreas and placenta. Expression of isoform 3 is amplified during monocytic differentiation and also observed in the fetal heart.
Tag :	orthogonal,hot
Sort :	1189
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

## **Products Images**



Chicken nuscle Nroblasts Enbryo nuscle



Western Blot analysis of 293 cells using SERCA2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

Yao, Haidong, et al. "Selenoprotein W redox-regulated Ca2+ channels correlate with selenium deficiency-induced muscles

Ca2+ leak." Oncotarget 7.36 (2016): 57618.





Immunohistochemical analysis of paraffin-embedded humanmuscle, antibody was diluted at 1:100



Western blot analysis of lysate from 293 cells, using ATP2A2 Antibody.