

ARG46732 anti-SERCA2 ATPase antibody [1G02]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [1G02] recognizes SERCA2 ATPase
Tested Reactivity	Hu, Rat
Tested Application	WB
Host	Rabbit
Clonality	Monoclonal
Clone	1G02
Isotype	IgG
Target Name	SERCA2 ATPase
Immunogen	A synthetic peptide of human SERCA2 ATPase
Conjugation	Un-conjugated
Alternate Names	ATP2B; Endoplasmic reticulum class 1/2 Ca; SERCA2; SR Ca; DD; Sarcoplasmic/endoplasmic reticulum calcium ATPase 2; EC 3.6.3.8; Calcium pump 2; DAR; Calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform; 2+

Application Instructions

Application table	Application	Dilution
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	115 kDa	

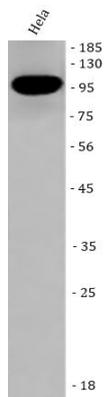
Properties

Form	Liquid
Purification	Affinity chromatography purified
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	0.05% BSA and 40 % Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

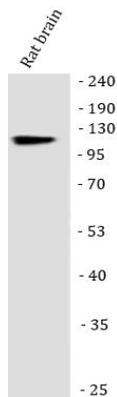
Gene Symbol	ATP2A2
Gene Full Name	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2
Background	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol into the sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation cycle. Mutations in this gene cause Darier-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 isoforms. [provided by RefSeq, Oct 2008]
Function	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Isoform 2 is involved in the regulation of the contraction/relaxation cycle. [UniProt]
Calculated Mw	115 kDa
PTM	Nitrated under oxidative stress. Nitration on the two tyrosine residues inhibits catalytic activity.

Images



ARG46732 anti-SERCA2 ATPase antibody [1G02] WB image

Western blot: HeLa stained with ARG46732 anti-SERCA2 ATPase antibody [1G02].



ARG46732 anti-SERCA2 ATPase antibody [1G02] WB image

Western blot: Rat brain stained with ARG46732 anti-SERCA2 ATPase antibody [1G02].