

Product Datasheet

SERCA2 ATPase Antibody - BSA Free NB100-237

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-237**SERCA2 ATPase Antibody - BSA Free**

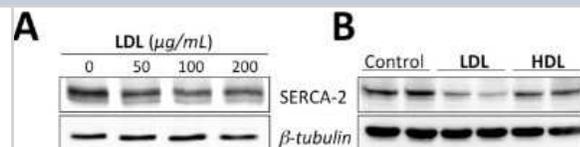
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit SERCA2 ATPase Antibody - BSA Free (NB100-237) is a polyclonal antibody validated for use in WB, ICC/IF, IP and ChIP. Anti-SERCA2 ATPase Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	488
Gene Symbol	ATP2A2
Species	Human, Mouse, Rat, Chicken
Reactivity Notes	Use in Chicken reported in scientific literature (PMID:35024244) Cat (100%). Mouse reactivity reported in scientific literature (PMID:23516438). Rat reactivity reported in scientific literature (PMID: 25513985)..
Immunogen	The immunogen recognized by this antibody maps to a region between residue 475 and 525 of human ATPase, Ca ⁺⁺ transporter, cardiac muscle, slow twitch 2 using the numbering given in entry NP_733765.1 (GeneID 488).

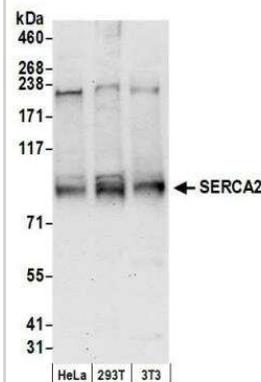
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2 - 10 ug/mg lysate, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	This antibody can be used for WB, where a band is seen around 110 kDa. Use in Immunoprecipitation reported in scientific literature (PMID 24284412) Use in chromatin immunoprecipitation reported in scientific literature (PMID 24284412). Use in ICC/IF reported in scientific literature (PMID: 22045735).

Images

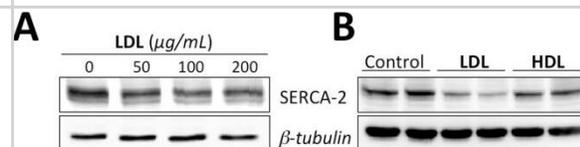
Western Blot: SERCA2 ATPase Antibody [NB100-237] - Representative Western blot analysis showing SERCA2 bands in HL-1 cells exposed to increasing LDL concentrations (0, 50, 100 and 200 $\mu\text{g}/\text{mL}$) (A) or to similar dose (500 $\mu\text{g}/\text{mL}$) of LDL or HDL (B) for 24 hours. HL-1 cells incubated in absence of LDL. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/23516438>) licensed under a CC-BY license.



Western Blot: SERCA2 ATPase Antibody [NB100-237] - Detection of human and mouse SERCA2 by western blot. Samples: Whole cell lysate (50 μg) from HeLa, 293T, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-SERCA2 antibody NB100-237 used for WB at 0.1 $\mu\text{g}/\text{mL}$. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot: SERCA2 ATPase Antibody [NB100-237] - LDL reduces SERCA expression & SR calcium loading. Representative Western blot analysis showing SERCA2 bands in HL-1 cells exposed to increasing LDL concentrations (0, 50, 100 & 200 $\mu\text{g}/\text{mL}$) (A) or to similar dose (500 $\mu\text{g}/\text{mL}$) of LDL or HDL (B) for 24 hours. The bar graph below shows SERCA2 band quantification. Unchanged levels of β -tubulin are shown as loading control. Results are mean \pm SEM of three independent experiments performed in duplicate. * $P < 0.05$ versus. HL-1 cells incubated in absence of LDL. C Calcium images acquired at rest before (CON) & during a rapid caffeine application. D Representative calcium transients recorded in cultures incubated without lipoproteins (CON), with 500 $\mu\text{g}/\text{mL}$ LDL or with 500 $\mu\text{g}/\text{mL}$ HDL. The lower panel shows the corresponding time integrals of the calcium transients. E summary of the effect of LDL & HDL on the time integral of the caffeine induced calcium transient. * $P < 0.05$ vs. cells incubated with LDL Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0058128>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Paulik K, Ivanics T, Dunay G et al. Inhibition of the Renin-Angiotensin System Improves Hemodynamic Function of the Diabetic Rat Heart by Restoring Intracellular Calcium Regulation. *Biomedicines* 2025-03-20 [PMID: 40149735]

Anand Mohan Prasad, Giuseppe Inesi Silencing calcineurin A subunit reduces SERCA2 expression in cardiac myocytes *American Journal of Physiology - Heart and Circulatory Physiology* 2012-01-01 [PMID: 21057045]

Cai B, Ma M, Zhang J et al. LncEDCH1 improves mitochondrial function to reduce muscle atrophy by interacting with SERCA2 *Molecular Therapy - Nucleic Acids* 2022-03-01 [PMID: 35024244] (RIP, WB, Chicken)

Nensa FM. Interaktomstudie zum Alzheimer - relevanten Adapterprotein FE65 -Durchführung eines Pulldown - Assays mit rekombinant hergestelltem Protein und humanem Hirngewebe Thesis 2016-01-01 (WB, Human)

Dunay GA, Paragi P, Sara L et al. Depressed calcium cycling contributes to lower ischemia tolerance in hearts of estrogen-deficient rats. *Menopause*. 2014-12-15 [PMID: 25513985] (WB, Rat)

Nensa FM, Neumann MH, Schrotter A et al. Amyloid Beta A4 Precursor Protein-binding Family B Member 1 (FE65) Interactomics Revealed Synaptic Vesicle Glycoprotein 2A (SV2A) and Sarcoplasmic/Endoplasmic Reticulum Calcium ATPase 2 (SERCA2) as New Binding Proteins in the Human Brain. *Mol Cell Proteomics* 2014-02-01 [PMID: 24284412] (IP, Chemotaxis, WB, Human)

Wang Y, Bruce AT, Tu C et al. Protein aggregation of SERCA2 mutants associated with Darier disease elicits ER stress and apoptosis in keratinocytes. *J Cell Sci*. 2011-11-01 [PMID: 22045735] (ICC/IF, Human)

Rich S, Pogoriler J, Husain AN et al. Long-term effects of epoprostenol on the pulmonary vasculature in idiopathic pulmonary arterial hypertension. *Chest* 2010-11-01 [PMID: 21051399]

Li Q, Hueckstaedt LK, Ren J et al. The protease inhibitor UCF-101 ameliorates streptozotocin-induced mouse cardiomyocyte contractile dysfunction in vitro: role of AMP-activated protein kinase. *Exp Physiol* 2009-09-01 [PMID: 19561140]

Song J, Zhang XQ, Wang J et al. Regulation of cardiac myocyte contractility by phospholemman: Na⁺/Ca²⁺ exchange versus Na⁺ -K⁺ -ATPase. *Am J Physiol Heart Circ Physiol* 2008-10-01 [PMID: 18708446]

Yang J, Pawlyk B, Wen XH et al. Mpp4 is required for proper localization of plasma membrane calcium ATPases and maintenance of calcium homeostasis at the rod photoreceptor synaptic terminals. *Hum Mol Genet* 2007-05-01 [PMID: 17341488]

Barriga M, Cal R, Cabello N et al. Low Density Lipoproteins Promote Unstable Calcium Handling Accompanied by Reduced SERCA2 and Connexin-40 Expression in Cardiomyocytes *PLoS One* 2013-01-01 [PMID: 23516438] (WB, Mouse)

More publications at <http://www.novusbio.com/NB100-237>





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Products Related to NB100-237

NB820-59218	Human Heart Aorta Valve Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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