

Product Datasheet

beta Sarcoglycan Antibody - BSA Free NBP1-90300

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-90300

beta Sarcoglycan Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

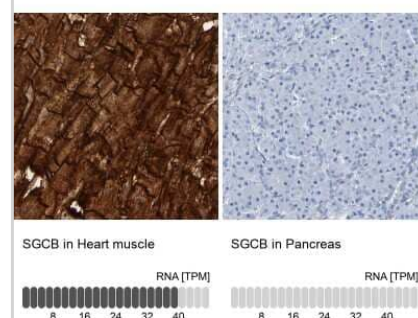
Host	Rabbit
Gene ID	6443
Gene Symbol	SGCB
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Rat (88%). Mouse reactivity reported in scientific literature (PMIDs : 29712757, 28284983, 26214262).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: FHMGGNMELKAENSIILNGSVMVSTTRLPSSSSGDQLGSGDWVRYKLCMCAD GTLFKVQVTSQNMGCQISDNPCGNTH

Product Application Details

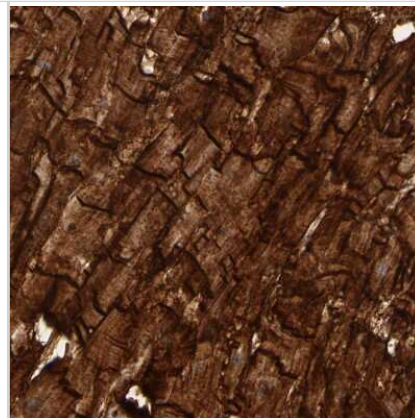
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. WB use reported with previous lot in PMIDs: 28284983 and 26214262).

Images

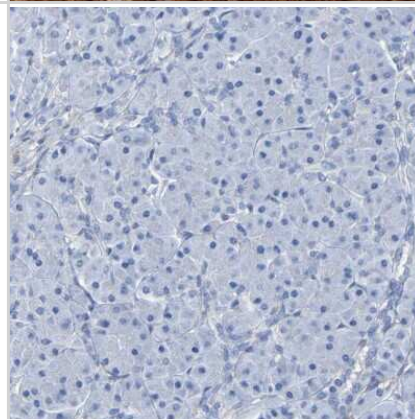
Immunohistochemistry-Paraffin: beta Sarcoglycan Antibody [NBP1-90300] - Staining in human heart muscle and pancreas tissues using NBP1-90300 antibody. Corresponding SGCB RNA-seq data are presented for the same tissues.



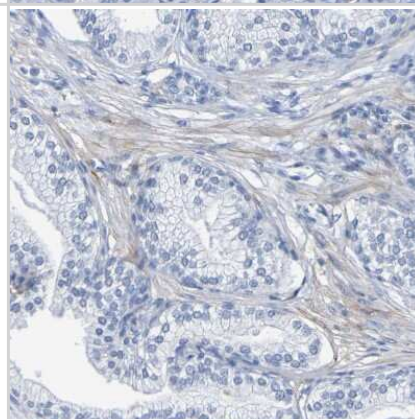
Immunohistochemistry-Paraffin: beta Sarcoglycan Antibody [NBP1-90300] - Staining of human heart muscle shows strong membranous and cytoplasmic positivity in cardiomyocytes.



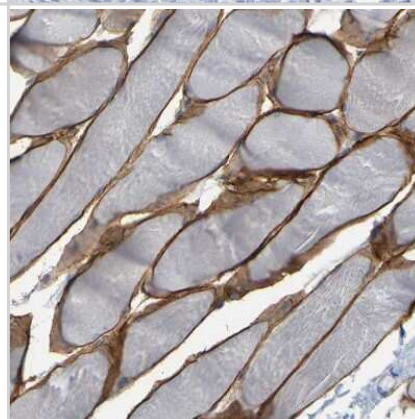
Immunohistochemistry-Paraffin: beta Sarcoglycan Antibody [NBP1-90300] - Staining of human pancreas shows no positivity in exocrine glandular cells as expected.



Immunohistochemistry-Paraffin: beta Sarcoglycan Antibody [NBP1-90300] - Staining of human prostate shows very weak membranous positivity in smooth muscle cells.



Immunohistochemistry-Paraffin: beta Sarcoglycan Antibody [NBP1-90300] - Staining of human skeletal muscle shows moderate membranous positivity in myocytes.



Publications

Davy Vanhoutte, Tobias G. Schips, Rachel A. Minerath, Jiuzhou Huo, Naga Swathi Sree Kavuri, Vikram Prasad, Suh-Chin Lin, Michael J. Broun, Michelle A. Sargent, Christopher M. Adams, Jeffery D. Molkentin Thbs1 regulates skeletal muscle mass in a TGF β -Smad2/3-ATF4-dependent manner Cell reports 2024-06-26 [PMID: 38678560]

Sidky SR, Ingalls CP, Lowe DA, Baumann CW. Membrane Proteins Increase with the Repeated Bout Effect Medicine & Science in Sports & Exercise 2022-01-01 [PMID: 34334717] (Western Blot, Block/Neutralize)

Baumann CW, Lindsay A, Sidky SR et al. Contraction-Induced Loss of Plasmalemmal Electrophysiological Function Is Dependent on the Dystrophin Glycoprotein Complex Frontiers in Physiology 2021-10-26 [PMID: 34764884] (Western Blot, Block/Neutralize)

Brody MJ, Vanhoutte D, Schips TG et al. Defective Flux of Thrombospondin-4 through the Secretory Pathway Impairs Cardiomyocyte Membrane Stability and Causes Cardiomyopathy Mol. Cell. Biol. 2018-04-30 [PMID: 29712757] (Mouse)

Vanhoutte D, Schips TG, Kwong JQ et al. Thrombospondin expression in myofibers stabilizes muscle membranes. Elife 2016-09-26 [PMID: 27669143] (IF/IHC)

Pozsgai ER, Griffin DA, Heller KN et al. Systemic AAV-Mediated b-Sarcoglycan Delivery Targeting Cardiac and Skeletal Muscle Ameliorates Histological and Functional Deficits in LGMD2E Mice. Mol. Ther. 2017-03-08 [PMID: 28284983] (WB, Mouse)

Pozsgai ER, Griffin DA, Heller KN et al. b-Sarcoglycan gene transfer decreases fibrosis and restores force in LGMD2E mice. Gene Ther. 2015-08-20 [PMID: 26214262] (WB, Mouse)





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Products Related to NBP1-90300

NBP1-90300PEP	beta Sarcoglycan Recombinant Protein Antigen
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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