

Product Datasheet

SLMAP Antibody - BSA Free

NBP1-81397

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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NBP1-81397

SLMAP 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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

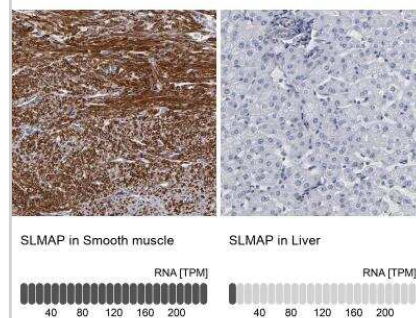
Product Description	
Description	Novus Biologicals Rabbit SLMAP Antibody - BSA Free (NBP1-81397) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SLMAP Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7871
Gene Symbol	SLMAP
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30934005).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SEYEKEITSLQNSFQLRCQQCEDQQREEATRLQGELEKLRKEWNALETECHSL KRENVLLSSELQRQEKEKELHNSQKQSLELTSDLSILQMSRKELENQVGSGLKEQH LRDSADLKTLLSKAENQAKDVQKEYEKTQTVLSELKLFEMTEQ

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

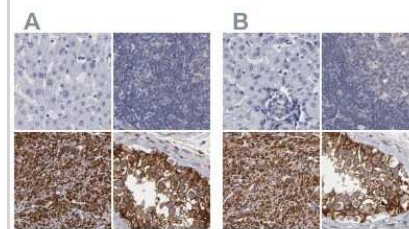


Images

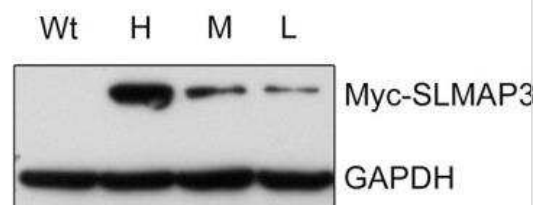
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Immunohistochemistry analysis in human smooth muscle and liver tissues using Anti-SLMAP antibody. Corresponding SLMAP RNA-seq data are presented for the same tissues.



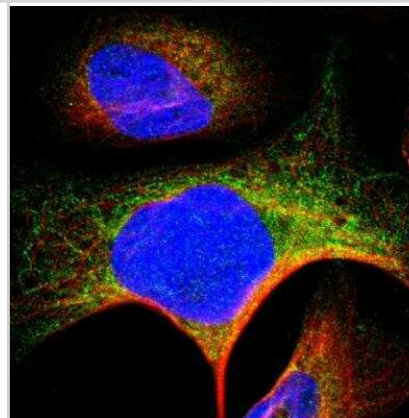
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human liver, lymph node, smooth muscle and testis using Anti-SLMAP antibody NBP1-81397 (A) shows similar protein distribution across tissues to independent antibody NBP1-81398 (B).



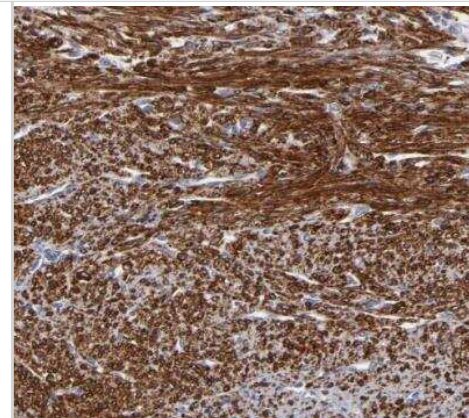
Western Blot: SLMAP Antibody [NBP1-81397] - SLMAP transgene protein expression in Tg mice. Western blot of heart lysate from Wt and Tg mice with anti-myc in high (H), moderate (M), and low (L) SLMAP expression, GAPDH was used as loading control. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0214669>) licensed under a CC-BY license.



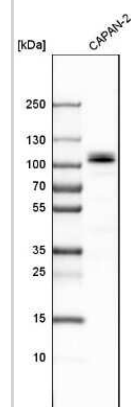
Immunocytochemistry/Immunofluorescence: SLMAP Antibody [NBP1-81397] - Staining of human cell line U-2 OS shows localization to endoplasmic reticulum. Antibody staining is shown in green.



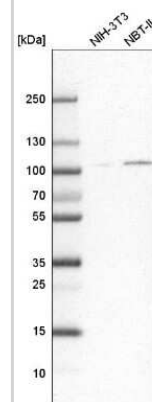
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human smooth muscle shows high expression.



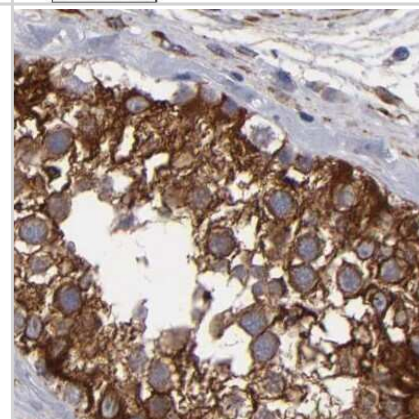
Western Blot: SLMAP Antibody [NBP1-81397] - Analysis in human cell line CAPAN-2.



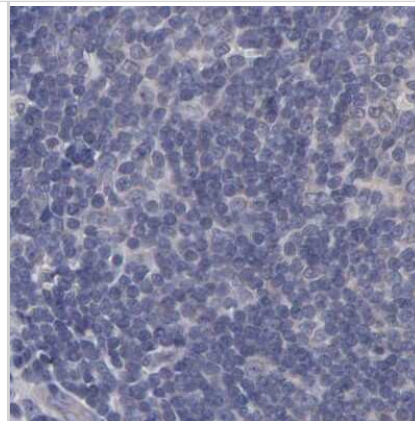
Western Blot: SLMAP Antibody [NBP1-81397] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



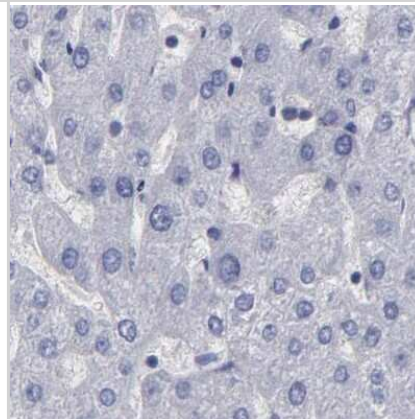
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human testis.



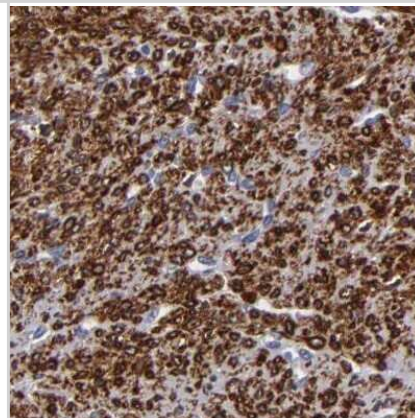
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human lymph node.



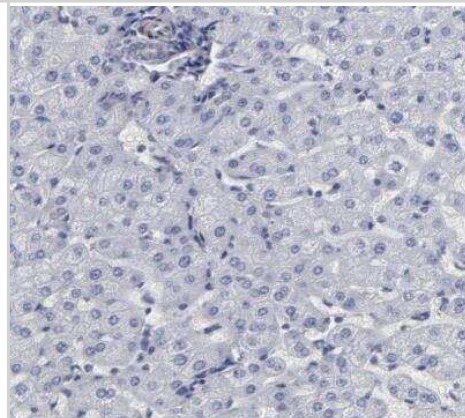
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human liver using Anti-SLMAP antibody NBP1-81397.



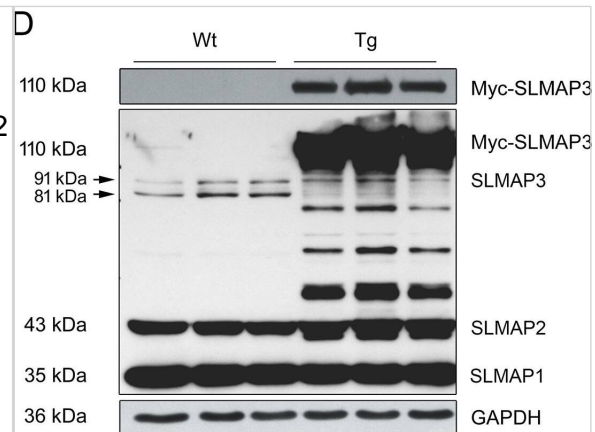
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human smooth muscle using Anti-SLMAP antibody NBP1-81397.



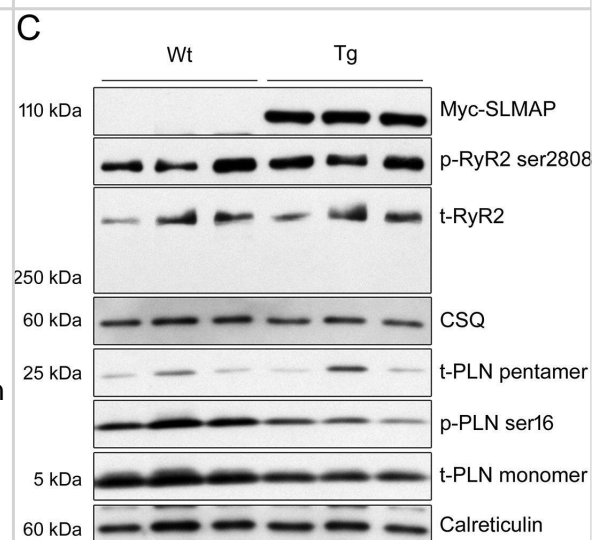
Immunohistochemistry-Paraffin: SLMAP Antibody [NBP1-81397] - Staining of human liver shows low expression as expected.



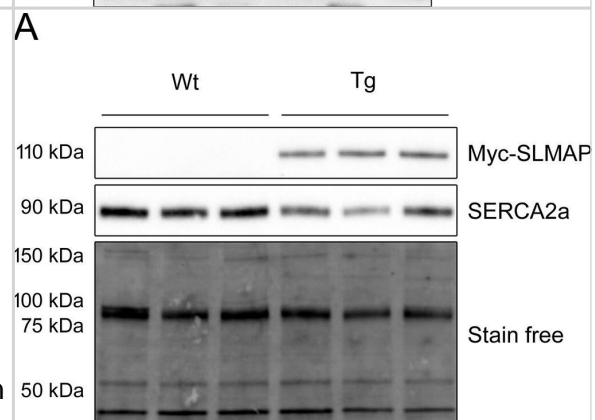
Western Blot: SLMAP Antibody [NBP1-81397] - Postnatal expression of SLMAP3 in Tg mice. (A) Schematic representation of the SLMAP3 transgene construct comprising the forkhead associated domain (FHA), the leucine zipper coiled-coil region (LZ), & the transmembrane domain 2 (TM2) in frame with 6-myc tag, driven by α -MHC promoter. (B) Number of SLMAP3 transgene copies in hearts. DNA was isolated from hearts of mice & qRT-PCR was performed with appropriate primers to assess copies of Myc-SLMAP3 transgene. (C) SLMAP3 transgene protein expression in Tg mice. Western blot of heart lysate from Wt & Tg mice with anti-myc in high (H), moderate (M), & low (L) SLMAP3-six myc expression, GAPDH was used as loading control. (D) Endogenous SLMAP isoforms in Wt & Tg myocardium. Western blots of SLMAP isoforms in Wt & Tg mice at 5 weeks of age with anti-SLMAP (~35 kDa, ~43 kDa, ~81 kDa, ~91 kDa, & 110 kDa) & anti-myc antibodies (~110 kDa). SLMAP3 image was acquired with a longer exposure of the same membrane. (E) Quantification & fold change of protein expression levels of SLMAP1 (~35 kDa) & SLMAP2 (~43 kDa) isoforms in Tg mice compared to Wt age-matched littermates at 5 weeks of age; Wt corresponds to 1 (100%), n = 3. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30934005>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: SLMAP Antibody [NBP1-81397] - Expression of calcium handling proteins & their phosphorylation in microsomes. (A) Western blot analysis of SERCA2a protein expression in microsomal fractions & total protein acquired by stain-free. (B) Quantification of SERCA2a in microsomal fractions normalized to total protein assessed by stain free technology in Wt (n = 4) & Tg (n = 7) mice. (C) Western blots for total ryanodine receptor 2 (t-RyR2), its phosphorylation on serine 2808 (p-RyR2 ser 2808), calsequestrin (CSQ), total phospholamban (t-PLN) & its phosphorylation on serine 16 (p-PLN ser16) in microsomal fractions from 5 weeks old Tg & Wt mice hearts. Anti-calreticulin was used as loading control. Tg SLMAP3 was detected by anti-myc (Myc-SLMAP3). (D) Quantification of RyR2, CSQ, & PLN (monomeric) protein expression in Wt & Tg mice. * $p < 0.05$, # $p = 0.053$, n (Wt) = 5, n (Tg) = 4. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30934005>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: SLMAP Antibody [NBP1-81397] - Expression of calcium handling proteins & their phosphorylation in microsomes. (A) Western blot analysis of SERCA2a protein expression in microsomal fractions & total protein acquired by stain-free. (B) Quantification of SERCA2a in microsomal fractions normalized to total protein assessed by stain free technology in Wt (n = 4) & Tg (n = 7) mice. (C) Western blots for total ryanodine receptor 2 (t-RyR2), its phosphorylation on serine 2808 (p-RyR2 ser 2808), calsequestrin (CSQ), total phospholamban (t-PLN) & its phosphorylation on serine 16 (p-PLN ser16) in microsomal fractions from 5 weeks old Tg & Wt mice hearts. Anti-calreticulin was used as loading control. Tg SLMAP3 was detected by anti-myc (Myc-SLMAP3). (D) Quantification of RyR2, CSQ, & PLN (monomeric) protein expression in Wt & Tg mice. * $p < 0.05$, # $p = 0.053$, n (Wt) = 5, n (Tg) = 4. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30934005>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Dias, AP;Rehmani, T;Applin, BD;Salih, M;Tuana, B; SLMAP3 is crucial for organogenesis through mechanisms involving primary cilia formation Open biology 2024-10-01 [PMID: 39417621]

Rehmani T, Dias AP, Applin BD et al. SLMAP3 is essential for neurulation through mechanisms involving cytoskeletal elements, ABP, and PCP Life Science Alliance 2024-10-04 [PMID: 39366759]

Mlynarova, J;Trentin-Sonoda, M;Gaisler da Silva, F;Major, JL;Salih, M;Carneiro-Ramos, MS;Tuana, BS; SLMAP3 isoform modulates cardiac gene expression and function PLoS ONE 2019-04-01 [PMID: 30934005] (WB, Mouse)





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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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