

Product Datasheet

Synaptopodin Antibody - BSA Free NBP2-39100

Unit Size: 0.1 mg

Store at 4C.

www.novusbio.com



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Publications: 13

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NBP2-39100

Synaptopodin Antibody - BSA Free

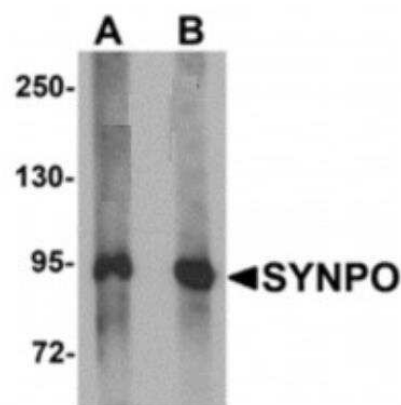
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	95 kDa

Product Description	
Host	Rabbit
Gene ID	11346
Gene Symbol	SYNPO
Species	Human, Mouse, Rat
Specificity/Sensitivity	At least three isoforms of SYNPO are known to exist; this antibody will detect all three isoforms. SYNPO antibody is predicted to not cross-react with other SYNPO family member proteins.
Immunogen	Antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human SYNPO. The immunogen is located within the last 50 amino acids of SYNPO. Amino Acid Sequence: SPSRAWSPRAKQAPRPS

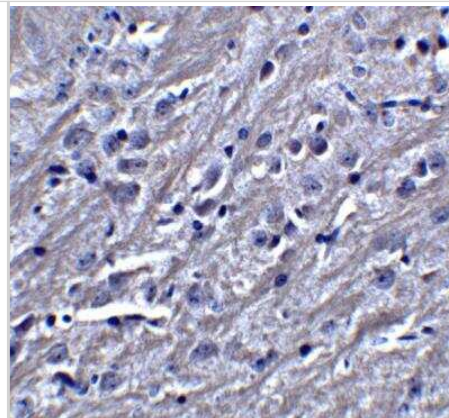
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 2.5 ug/mL

Images

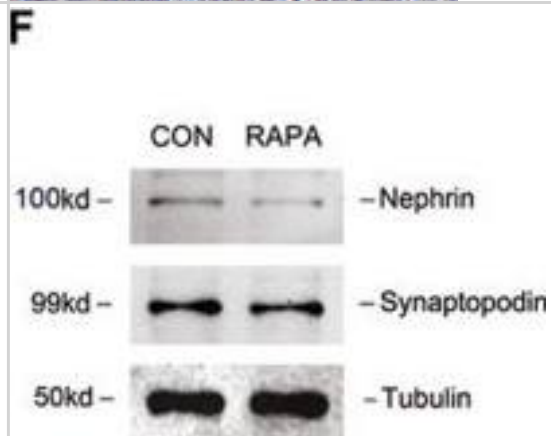
Western Blot: Synaptopodin Antibody [NBP2-39100] - Analysis of SYNPO in rat brain tissue lysate with SYNPO antibody at (A) 1 and (B) 2 ug/mL.



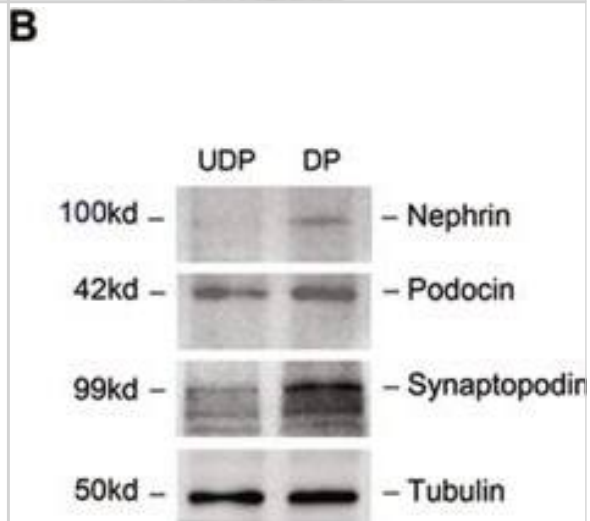
Immunohistochemistry: Synaptopodin Antibody [NBP2-39100] - Mouse brain tissue with SYNPO antibody at 5 ug/mL.



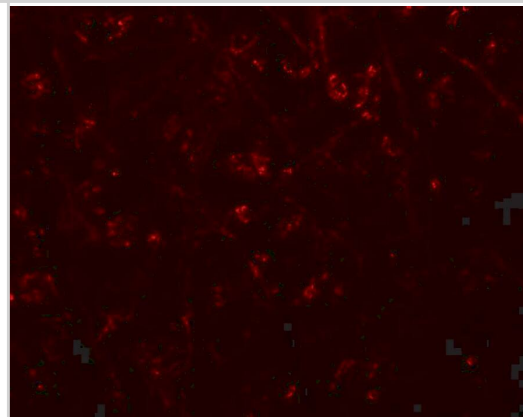
Western Blot: Synaptopodin Antibody - BSA Free [NBP2-39100] - mTOR signaling pathway regulated PKM2 expression & podocyte differentiation. a IHC detection of p-S6 in renal cortex during postnatal development. Scale bar=20 μ m. b Representative western immunoblot analysis of p-S6 in renal cortex. c Representative western immunoblot analysis of p-S6 in cultured podocyte during differentiation. d Western immunoblot analysis of p-S6 & PKM2 expression in Tsc1fl/fl & Tsc1-/- podocytes. e Rapamycin caused a significant reduction in the protein levels of p-S6 & PKM2 in cultured podocyte. f Western immunoblot analysis of nephrin & synaptopodin with 10 nM rapamycin treatment for 14 days. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32393782>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



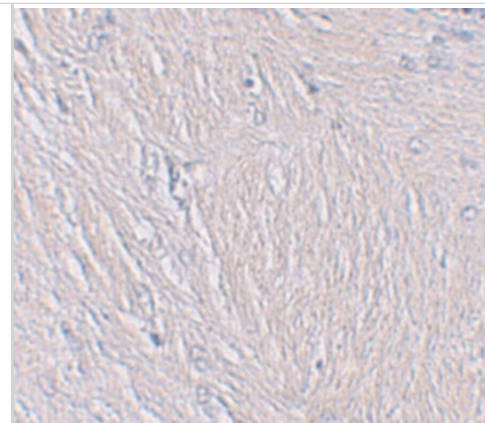
Western Blot: Synaptopodin Antibody - BSA Free [NBP2-39100] - Metabolomics analysis revealed higher lactate production in differentiated podocytes. a Immunofluorescence staining for nephrin (red), phalloidine for F-actin (green) & DAPI for nuclear (blue) in undifferentiated podocytes (UDPs) or differentiated podocytes (DPs) as indicated (n = 5). Scale bar=5 μ m. b Representative western blotting results of nephrin, podocin & synaptopodin confirm the differentiation of podocytes (n = 3). c Representative map of 1H-NMR spectra in the extracellular medium incubated with the presence of different podocytes (n = 6). UDM: undifferentiated podocyte medium; DM: differentiated podocyte medium. The map shows the significance of metabolites variations between these two classes. Peaks in the positive direction indicate metabolites that are more abundant in the UDM groups. Consequently, metabolites that are more abundant in DM are presented as peaks in the negative direction. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32393782>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Synaptopodin Antibody - BSA Free [NBP2-39100] - Immunofluorescence of Synaptopodin in human brain tissue with Synaptopodin antibody at 20 u/mL.

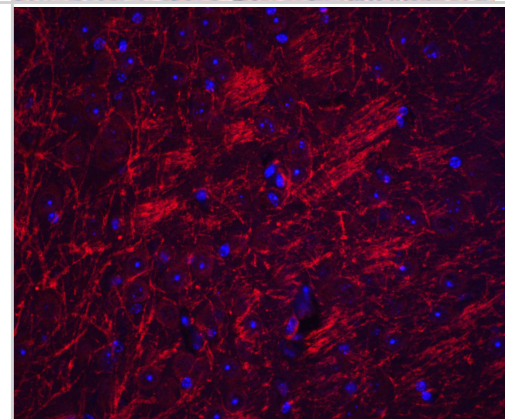


Immunohistochemistry: Synaptopodin Antibody - BSA Free [NBP2-39100] - Immunohistochemistry of Synaptopodin in human brain tissue with Synaptopodin antibody at 2.5 u/mL.



Immunocytochemistry/ Immunofluorescence: Synaptopodin Antibody - BSA Free [NBP2-39100] - Immunofluorescence of Synaptopodin in mouse brain tissue with Synaptopodin antibody at 20 u/mL.

Red: Synaptopodin Antibody
Blue: DAPI staining



Publications

Huang X, Lu Y, Lee H Targeting Heparanase Attenuates Podocyte Injury Induced by Puromycin Aminonucleoside. *Journal of cellular physiology* 2025-06-11 [PMID: 40495439]

Qu H, Liu X, Zhu J et Al. Dock5 Deficiency Promotes Proteinuric Kidney Diseases via Modulating Podocyte Lipid Metabolism *Adv Sci (Weinh)* 2023-12-31 [PMID: 38161229]

Cui FQ, Gao YB, Wang YF et Al. Effect of Tang-Shen-Ning decoction on podocyte epithelial-esenchymal transformation via inhibiting Wnt/ β -catenin pathway in diabetic mice *Ann Palliat Med* 2022-01-13 [PMID: 32921066]

Yan Li, Usman Muhammad, Ellen Sapp, Yuting Ke, Zejian Wang, Adel Boudi, Marian DiFiglia, Xueyi Li Chronic pharmacologic manipulation of dopamine transmission ameliorates metabolic disturbance in trappc9-linked brain developmental syndrome. *JCI insight* 2024-06-18 [PMID: 38889014]

Yang Q, Wang L, Liang Y et al. Loss of UCP2 causes mitochondrial fragmentation by OMA1-dependent proteolytic processing of OPA1 in podocytes *FASEB journal : official publication of the Federation of American Societies for Experimental Biology* 2023-11-01 [PMID: 37874273] (WB)

Wei M, Qiu Z, Li H et al. Integrating network pharmacology approach and experimental validation to reveal the alleviation of Shengkangning capsule on chronic nephritis *Journal of Ethnopharmacology* 2022-08-01 [PMID: 36057408] (ELISA, Mouse)

Tao Y, Chaudhari S, Shotorbani PY et al. Enhanced Orai1-mediated store-operated Ca²⁺ channel/calpain signaling contributes to high glucose-induced podocyte injury *The Journal of biological chemistry* 2022-04-28 [PMID: 35490782] (WB, Human)

Kulikov AA, Naumova AA, Aleksandrova EP Et al. Audiogenic kindling stimulates aberrant neurogenesis, synaptopodin expression, and mossy fiber sprouting in the hippocampus of rats genetically prone to audiogenic seizures *Epilepsy & behavior : E&B* 2021-12-01 [PMID: 34837844] (IHC-Fr, Rat)

Moon SJ, Jeong JY, Kim JH et al. The potential roles of NAD(P)H:quinone oxidoreductase 1 in the development of diabetic nephropathy and actin polymerization *Sci Rep* 2020-10-20 [PMID: 33082368] (ICC/IF, Mouse)

Yuan Q, Miao J, Yang Q et al. Role of pyruvate kinase M2-mediated metabolic reprogramming during podocyte differentiation *Cell Death Dis* 2020-05-11 [PMID: 32393782] (WB, Mouse)

Chen W, Wu Y, Zhang G et al. GdT Cells Exacerbate Podocyte Injury via the CD28/B7-1-Phosphor-SRC Kinase Pathway *Biomed Res Int.* [PMID: 29862277] (ICC/IF, Mouse)

Li H, Zhang W, Zhong F et al. Epigenetic regulation of RCAN1 expression in kidney disease and its role in podocyte injury. *kidney Int.* 2018-10-23 [PMID: 30366682] (ICC/IF, Human)

More publications at <http://www.novusbio.com/NBP2-39100>





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Products Related to NBP2-39100

NBP2-39100PEP	Synaptopodin Antibody Blocking Peptide
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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