

Anti-Synaptopodin SYNPO Antibody

Catalog Number: A03154

About SYNPO

SYNPO, also known as synaptopodin, is an actin-associated protein in telencephalic dendrites and renal podocytes. SYNPO is tightly associated with the dendritic spine apparatus, and mice lacking the SYNPO gene lack the apparatus. These SYNPO-null mice also demonstrate an impaired ability to express long-term potentiation as well as deficits in spatial memory tasks, indicating that SYNPO is involved in the regulation of synaptic plasticity. Recent studies suggest that SYNPO is linked to neuronal calcium stores and plays a role in the calcium store-associated ability of neurons to undergo long-term plasticity.

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Overview

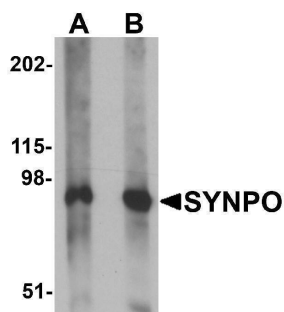
Product Name	Anti-Synaptopodin SYNPO Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Synaptopodin SYNPO Antibody (Catalog # A03154). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	SYNPO Antibody is supplied in PBS containing $\leq 0.09\%$ sodium azide.
Storage Instructions	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8N3V7

Technical Details

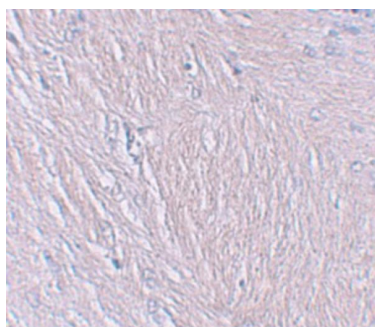
Immunogen	SYNPO antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human SYNPO. The immunogen is located within the last 50 amino acids of SYNPO.
Predicted Reactive Species	Bovine, Rat
Cross Reactivity	At least three isoforms of SYNPO are known to exist; this antibody will detect all three isoforms.

	SYNPO antibody is predicted to not cross-react with other SYNPO family member proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SYNPO Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	SYNPO antibody can be used for detection of SYNPO by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

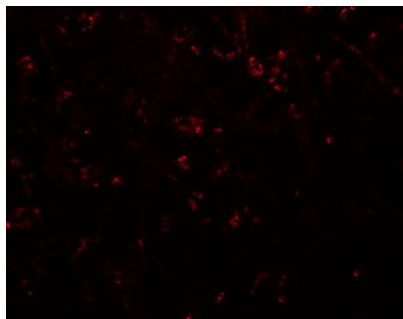
Anti-Synaptopodin SYNPO Antibody (A03154) Images



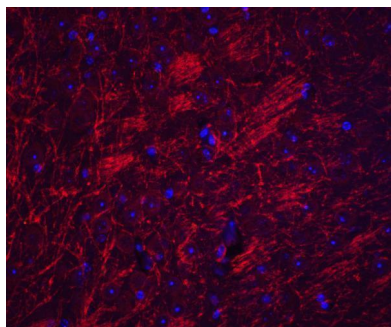
Western blot analysis of SYNPO in rat brain tissue lysate with SYNPO antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of SYNPO in human brain tissue with SYNPO antibody at 2.5 ug/mL.

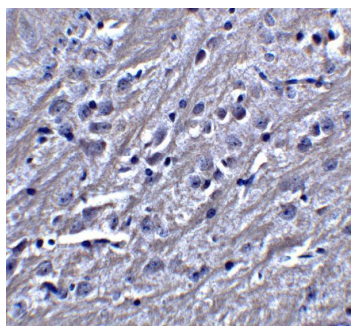


Immunofluorescence of SYNPO in human brain tissue with SYNPO antibody at 20 ug/mL.



Immunofluorescence of SYNPO in mouse brain tissue with SYNPO antibody at 20 ug/mL. Red: SYNPO Antibody (A03154)
Blue: DAPI staining

Immunohistochemistry of SYNPO in mouse brain tissue with SYNPO antibody at 5 ug/mL.



Anti-Synaptopodin SYNPO Antibody

For Research Use Only. Not for use in diagnostic procedures.