BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-STMN2 Antibody (Center)

Catalog Number: M04729

About STMN2

Regulator of microtubule stability. When phosphorylated by MAPK8, stabilizes microtubules and consequently controls neurite length in cortical neurons. In the developing brain, negatively regulates the rate of exit from multipolar stage and retards radial migration from the ventricular zone (By similarity).

Overview

Product Name	Anti-STMN2 Antibody (Center)
Reactive Species	Human, Mouse
Description	Boster Bio Anti-STMN2 Antibody (Center) (Catalog # M04729). Tested in WB, IHC, IF, Flow Cytometry application(s). This antibody reacts with Human, Mouse.
Application	Flow Cytometry, IF, IHC, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q93045

Technical Details

Immunogen	This STMN2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 82-116 amino acids from the Central region of human STMN2.
Predicted Reactive Species	Bovine, Rabbit
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: IF: 1:25 WB: 1:1000

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	IHC: 1:25 FC: 1:25

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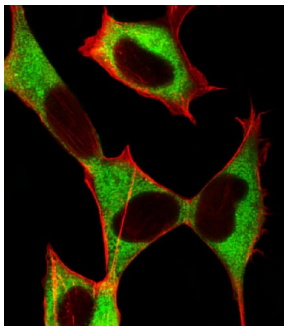
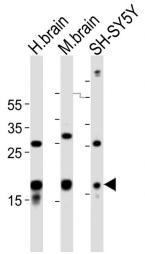
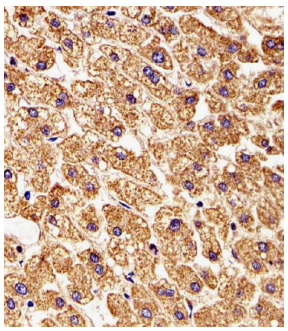
Anti-STMN2 Antibody (Center) (M04729) Images



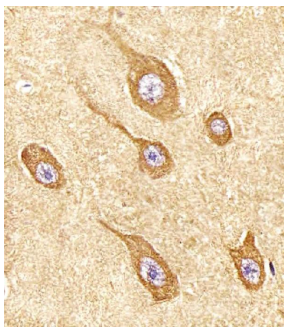
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized SH-SY5Y (Human metastatic neuroblastoma cell line) cells labeling STMN2 with M04729 at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG secondary antibody at 1/400 dilution (green). Confocal image showing both cytoplasm on SH-SY5Y cell line. Cytoplasmic actin is detected with Alexa Fluor® 555 conjugated with Phalloidin at 1/100 dilution (red).



All lanes : Anti-STMN2 Antibody (Center) at 1:1000 dilution
Lane 1: human brain lysates
Lane 2: mouse brain lysates
Lane 3: SH-SY5Y whole cell lysates
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 21 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



M04729 staining STMN2 in Human liver tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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Overlay histogram showing SH-SY5Y cells stained with M04729 (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used

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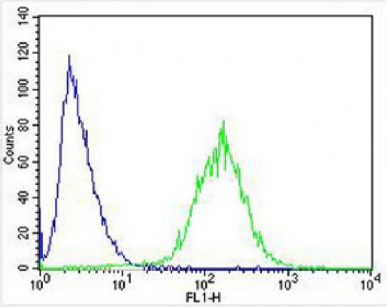

was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-STMN2 Antibody (Center)