

Anti-STIM1 Purified Monoclonal Antibody

Catalog Number: M00312-1

About STIM1

STIM1 (stromal interacting molecule; also known as GOK) acts as a sensor of calcium depletion within the endoplasmic reticulum and transduces the signal to Orai1, the presumptive CRAC channel at the plasma membrane. Following decrease of luminal calcium concentration, STIM1 oligomerizes and induces Orai1 to enable entry of extracellular calcium into the cytoplasm. However, the precise mechanism of STIM1-Orai1 interaction has not been elucidated yet. Many questions also remain to be solved around STIM1 functional distribution. It turns out that STIM1 associates with growing ends of microtubules and is involved in endoplasmic reticulum tubule extension.

Overview

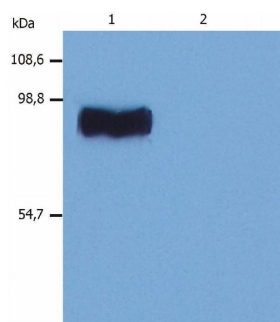
Product Name	Anti-STIM1 Purified Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-STIM1 Purified Monoclonal Antibody (Catalog# M00312-1). Tested in IP, WB, IHC-P, ICC application(s). This antibody reacts with Rat, Human, Mouse.
Application	IP, IHC-P, ICC, WB
Clonality	Monoclonal CDN3H4
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	G0XQ39

Technical Details

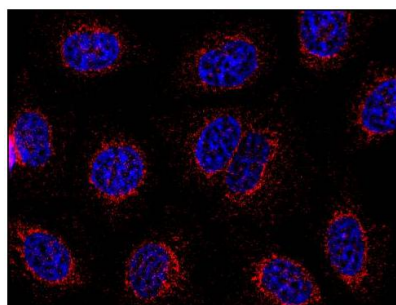
Immunogen	Synthesized peptide (C-terminal cytoplasmic part of STIM1). The mouse monoclonal antibody CDN3H4 reacts with a cytoplasmic epitope of human and rodent STIM1, a 84 kDa essential and conserved regulator of store-operated Ca ²⁺ channel function.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Immunocytochemistry: Methanol-aceton fixation; positive control: HeLa human cervix carcinoma cell line.

Immunohistochemistry (paraffin sections): 5 ug/ml.
Western blotting: 1 ug/ml; positive control: RBL rat basophilic leukemia cell line; both reducing and non-reducing conditions.

Anti-STIM1 Purified Monoclonal Antibody (M00312-1) Images



Western blotting analysis (non-reducing conditions) of whole cell lysate of RBL rat basophilic leukemia cell line. Lane 1: immunostaining with anti-STIM1 (CDN3H4) Lane 2: immunostaining with Isotype mouse IgG1 control (PPV-06)



Immunocytochemistry staining of HeLa human cervix carcinoma cell line using anti-STIM1 (CDN3H4; methanol-aceton fixation; detection by Goat anti-mouse IgG1 Alexa Fluor® 598; red). Nuclei were stained with DAPI (blue).

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-STIM1 Purified Monoclonal Antibody

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