

# Product Datasheet

## STIM1 Antibody (CDN3H4) - BSA Free NB110-55300

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB110-55300**

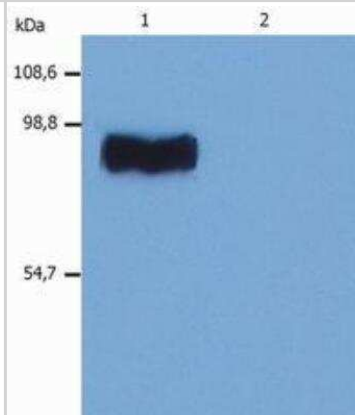
STIM1 Antibody (CDN3H4) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	CDN3H4
Preservative	15mM Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	84 kDa
Product Description	
Description	Novus Biologicals Mouse STIM1 Antibody (CDN3H4) - BSA Free (NB110-55300) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-STIM1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6786
Gene Symbol	STIM1
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	The antibody CDN3H4 reacts with human and rodent STIM1, a 84 kDa essential and conserved regulator of store-operated Ca <sup>2+</sup> channel function.
Immunogen	Synthesized peptide from C-terminal cytoplasmic part of STIM1. (NM_003156.3).
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	Western Blotting - Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing/reducing Laemmli SDS-PAGE sample buffer. Both reducing and non-reducing conditions. Immunocytochemistry - Staining technique: methanol-aceton fixation

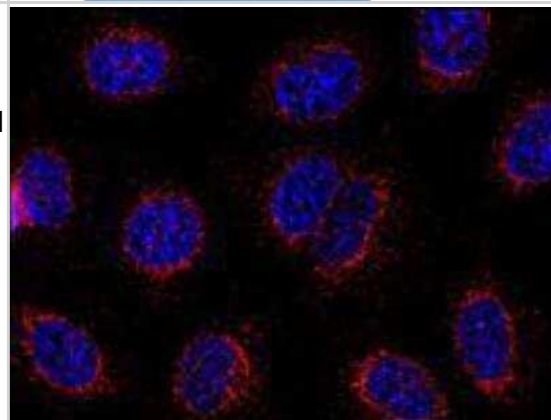


## Images

Western Blot: STIM1 Antibody (CDN3H4) [NB110-55300] - (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/Immunofluorescence: STIM1 Antibody (CDN3H4) [NB110-55300] - Staining of HeLa human cervix carcinoma cell line using anti-STIM1 (CDN3H4; methanol-aceton fixation; detection by Goat anti-mouse IgG1 Alexa Fluor(R) 598; red). Nuclei were stained with DAPI (blue).



## Publications

Han C, Luo Y, Li Z et al. TRPV6-mediated store-operated Ca<sup>2+</sup> entry participates in pancreatic acinar cell injury during acute pancreatitis. *Cellular and Molecular Gastroenterology and Hepatology* 2025-09-02 [PMID: 40907662]

Hajkova Z, Bugajev V, Draberova E et al. STIM1-directed reorganization of microtubules in activated mast cells. *J Immunol.* 2011-01-01 [PMID: 21160048]

Prakash,YS et al. Caveolins intracellular calcium regulation in human airway smooth muscle. *Am J Physiol Lung Cell Mol Physiol* 293(5):L1118-26. 2007-11-01 [PMID: 17704188]



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### **Products Related to NB110-55300**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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