

Product Datasheet

STIM1 Antibody (5A2) - Azide and BSA Free H00006786-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00006786-M01

STIM1 Antibody (5A2) - Azide and BSA Free

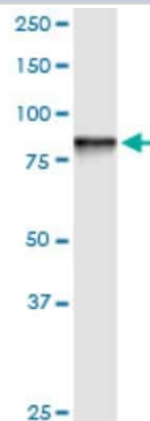
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5A2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	6786
Gene Symbol	STIM1
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 23076152). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	STIM1 (5A2)
Immunogen	STIM1 (AAH21300, 24 a.a. ~ 685 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. SHSHSEKATGTSSGANSEESTAAEFCCRDKPLCHSEDEKLSFEAVRNIHKLMDD DANGDVDVEESDEFLREDLNYHDPTVKHSTFHGEDKLISVEDLWKAWKSSEVY NWTVDEVVQWLITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGAVLKMTD RSHRQKLQKALDTVLFGPPLLTRHNHLKDFMLVVSIVIGVGGCWFAYIQNRYS KEHMKMMKDLLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKVHLEKKLRDEI NLAQKQEAQRLKELREGTENERSRQKYAEELQVREALRKAKEKELESHSSWY APEALQKWLQLTHEVEVQYYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTFHV AHSSSLDDVDHKILTAKQALSEVTAALRERLHRWQQIEILCGFQIVNPNPGIHSLV AALNIDPSWMGSTRPNPAHFIMTDDVDDMDEEIVSPLSMQSPSLQSSVRQRLT EPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNG SHRLIEGVHPGSLVEKLPDSPAALAKKALLALNHGLDKAHSMLSPSAPPGGSP HLDSSRSHSPSPDPDTPSPVGDSTRALQASRNTRIPHLAGKKAVAEEDNGSIG EETDSSPGRKKFPLKIFKKPLKK
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin

Application Notes

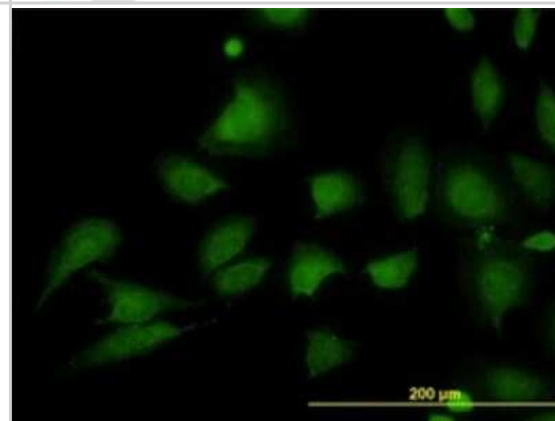
This antibody reactivity against cell lysate and recombinant protein for WB. IT has been used for IF, IHC-P, and ELISA. IP usage reported in scientific literature (PMID: 24845346).

Images

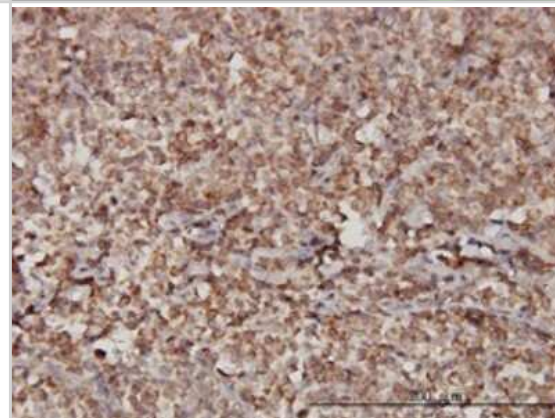
Western Blot: STIM1 Antibody (5A2) [H00006786-M01] - STIM1 monoclonal antibody (M01), clone 5A2. Analysis of STIM1 expression in human liver.



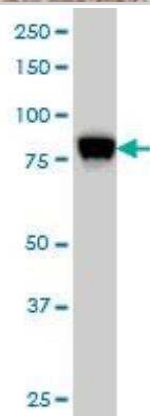
Immunocytochemistry/Immunofluorescence: STIM1 Antibody (5A2) [H00006786-M01] - Analysis of monoclonal antibody to STIM1 on HeLa cell. Antibody concentration 10 ug/ml.



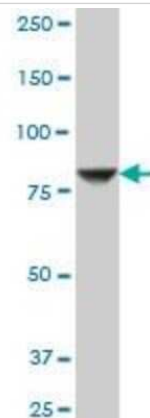
Immunohistochemistry-Paraffin: STIM1 Antibody (5A2) [H00006786-M01] - Analysis of monoclonal antibody to STIM1 on formalin-fixed paraffin-embedded human malignant lymphoma, diffuse large B. Antibody concentration 3 ug/ml.



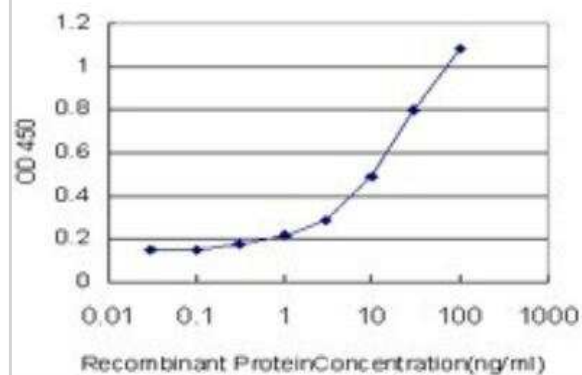
Western Blot: STIM1 Antibody (5A2) [H00006786-M01] - STIM1 expression in HeLa (Cat # L013V1).



Western Blot: STIM1 Antibody (5A2) [H00006786-M01] - STIM1 monoclonal antibody (M01), clone 5A2. Western Blot analysis of STIM1 expression in K-562 (Cat # L009V1).



ELISA: STIM1 Antibody (5A2) [H00006786-M01] - Detection limit for recombinant GST tagged STIM1 is approximately 0.3ng/ml as a capture antibody.



Publications

Wu F, Wang P, Young LC et al. Proteome-Wide Identification of Novel Binding Partners to the Oncogenic Fusion Gene Protein, NPM-ALK, using Tandem Affinity Purification and Mass Spectrometry. *Am J Pathol* 2009-01-08 [PMID: 19131589]

Kiviluoto S, Decuypere JP, De Smedt H et al. STIM1 as a key regulator for Ca²⁺ homeostasis in skeletal-muscle development and function. *Skelet Muscle*. 2011-04-04 [PMID: 21798093]

Steinbeck JA, Henke N, Opatz J et al. Store-operated calcium entry modulates neuronal network activity in a model of chronic epilepsy. *Exp Neurol*. 2011-08-30 [PMID: 21906591]

Eylenstein A, Schmidt S, Gu S et al. Transcription factor NF-κB regulates the expressions of a pore-forming unit, Orai1, and its activator, STIM1, to control Ca²⁺ entry and affect cellular functions. *J Biol Chem*. 2011-11-21 [PMID: 22110130]

Elvers M, Herrmann A, Seizer P et al. Intracellular cyclophilin A is an important Ca²⁺ regulator in platelets and critically involved in arterial thrombus formation. *Blood*. 2012-06-27 [PMID: 22740452]

Jans R, Mottram L, Johnson DL et al. Lysophosphatidic Acid Promotes Cell Migration through STIM1- and Orai1-Mediated Ca²⁺(i) Mobilization and NFAT2 Activation. *J Invest Dermatol*. 2012-10-25 [PMID: 23096711]

Schmid E, Bhandaru M, Nurbaeva MK et al. SGK3 Regulates Ca Entry and Migration of Dendritic Cells. *Cell Physiol Biochem*. 2012-11-22 [PMID: 23171960]

Umemura M, Baljinnyam E, Feske S et al. Store-Operated Ca²⁺ (+) Entry (SOCE) Regulates Melanoma Proliferation and Cell Migration. *PLoS One*. 2014-02-21 [PMID: 24586666]

Ferdaus MZ, Xiao B, Ohara H et al. Identification of stim1 as a candidate gene for exaggerated sympathetic response to stress in the stroke-prone spontaneously hypertensive rat. *PLoS One*. 2014-04-15 [PMID: 24736434]

Hong CH, Chang KL, Wang HJ et al. IL-9 induces IL-8 production via STIM1 activation and ERK phosphorylation in epidermal keratinocytes: A plausible mechanism of IL-9R in atopic dermatitis. *J Dermatol Sci*. 2015-03-16 [PMID: 25840641]

Lisak D, Schacht T, Gawlitzka A et al. BAX inhibitor-1 is a Ca²⁺ channel critically important for immune cell function and survival. *Cell Death Differ*. 2015-10-16 [PMID: 26470731]

Henke N, Albrecht P, Pfeiffer A et al. Stromal interaction molecule 1 (STIM1) is involved in the regulation of mitochondrial shape and bioenergetics and plays a role in oxidative stress. *J Biol Chem*. 2012-12-07 [PMID: 23076152] (Mouse)

More publications at <http://www.novusbio.com/H00006786-M01>





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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NB110-60547PEP	STIM1 Antibody Blocking Peptide

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