

Product Datasheet

STIM1 Antibody - BSA Free

NB110-60547

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB110-60547

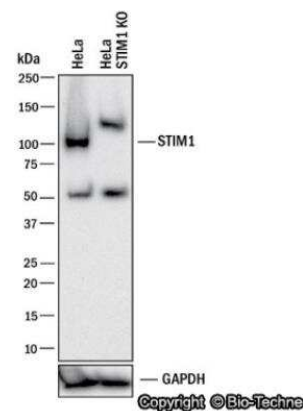
STIM1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	77 kDa
Product Description	
Host	Rabbit
Gene ID	6786
Gene Symbol	STIM1
Species	Human, Mouse, Rat, Bovine, Canine
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: porcine (93%) and Xenopus (79%).
Immunogen	STIM1 antibody was made to a synthetic peptide from the C-terminal region (within residues 600-685) of the human STIM1 protein. [UniProt# Q13586]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Knockdown Validated 1:1000
Application Notes	This STIM1 antibody is useful for Western blot and Immunocytochemistry/Immunofluorescence. In Western Blot a band is seen at ~77 kDa, representing the STIM1 protein. Two other non-specific bands of lower MW can also be seen.

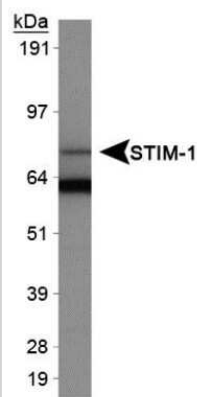


Images

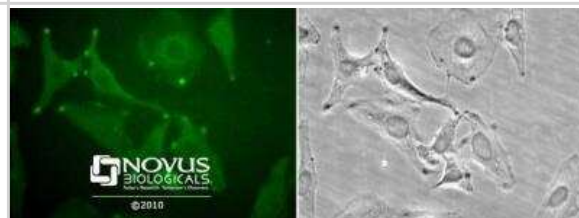
Knockdown Validated: STIM1 Antibody [NB110-60547] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and Stim-1 knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human Stim-1 Polyclonal Antibody (Catalog # NB110-60547) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for Stim-1 at approximately 90 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



Western Blot: STIM1 Antibody [NB110-60547] - Stromal interaction molecule 1 Antibody [NB110-60547] - Detection of STIM1 in HeLa whole cell extracts.



Immunocytochemistry/Immunofluorescence: STIM1 Antibody [NB110-60547] - Staining in HeLa cells detected with a Dylight 488 labeled secondary antibody.



Publications

Angulo J, Fernandez A, Sevilleja-Ortiz A et al. Upregulation of Orai Channels Contributes to Aging-Related Vascular Alterations in Rat Coronary Arteries International Journal of Molecular Sciences 2023-08-29 [PMID: 37686206] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Sevilleja-Ortiz A, El Assar M, Garcla-Rojo E Et al. Ageing-induced hypercontractility is related to functional enhancement of STIM/Orai and upregulation of Orai 3 in rat and human penile tissue Mech Ageing Dev 2021-10-26 [PMID: 34699858] (IF/IHC, Human, Rat)

Details:

Citation using the HRP version of this antibody.

Bugajev V, Paulenda T, Utekal P et al. Crosstalk between ORMDL3, serine palmitoyltransferase, and 5-lipoxygenase in the sphingolipid and eicosanoid metabolic pathways Journal of lipid research 2021-09-21 [PMID: 34560079] (ICC/IF, Human)

Sikorski K, Mehta A et al. A high-throughput pipeline for validation of antibodies. Nat Methods 2018-01-11 [PMID: 30377371] (Human)

Details:

Antibody validation based on denaturing gel electrophoresis of biotinylated cell lysates (PAGE) followed by mass spectrometry (MS) and antibody array analysis (MAP).

Nishi H, Arai H, Momiyama T. NCI-H295R, a Human Adrenal Cortex-Derived Cell Line, Expresses Purinergic Receptors Linked to Ca²⁺-Mobilization/Influx and Cortisol Secretion. PLoS One. 2013-08-08 [PMID: 23951072] (WB, Human)

Meuchel LW, Stewart A, Smelter DF et al. Neurokinin-Neurotrophin Interactions in Airway Smooth Muscle. Am J Physiol Lung Cell Mol Physiol. 2011-04-22 [PMID: 21515660] (WB, Rat)



Procedures

Western Blot Protocol for Stromal interaction molecule 1 Antibody (NB110-60547)

STIM1 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, overnight at 4C.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-STIM-1 primary antibody (NB 110-6054709) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce Pico ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB110-60547

NBL1-16538	STIM1 Overexpression Lysate
NB110-60547PEP	STIM1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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