

Stim1 polyclonal antibody

Catalog: BS67355

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

Ca²⁺ is a key second messenger in many intracellular signaling pathways. Ca²⁺ signals control many cellular functions ranging from short-term responses such as contraction and secretion to longer-term regulation of cell growth and proliferation. Stromal interaction molecules (STIMs) function as Ca²⁺ sensors that detect changes in Ca²⁺ content in intracellular Ca²⁺ stores. STIM1 is conserved, ubiquitously expressed, and functions as an endoplasmic reticulum (ER) Ca²⁺ sensor that migrates from the ER Ca²⁺ store to the plasma membrane where it activates calcium-release-activated calcium (CRAC) channels when the ER Ca²⁺ store is low. STIM1 is a potential tumor suppressor; defects in STIM1 may cause rhabdomyosarcoma and rhabdoid tumors. STIM1 can either homodimerize or form heterodimers with STIM2. STIM2 possesses a high sequence identity to STIM1 and can function as an inhibitor of STIM1-mediated plasma membrane store-operated Ca²⁺ entry. However, further investigation is required to elucidate the true physiological function of STIM2

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 95 kDa

Swiss-Prot:

Q13586

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/ICC (1/50 - 1/200)

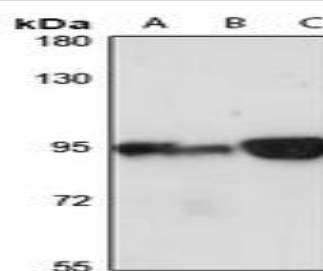
Storage&Stability:

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

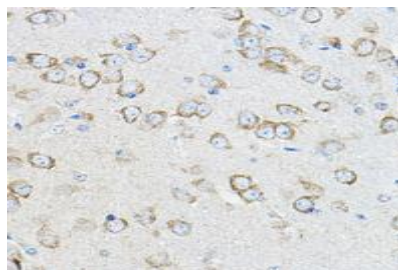
Specificity:

Recognizes endogenous levels of Stim1 protein

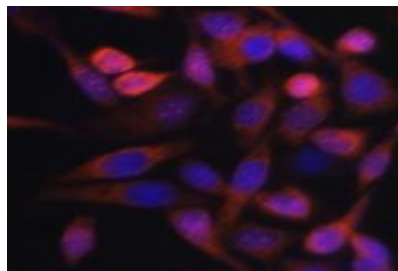
DATA:



Western blot analysis of Stim1 expression in HeLa (A), mouse brain (B), mouse heart (C) whole cell lysates.



Immunohistochemical analysis of Stim1 staining in mouse brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Stim1 staining in HeLa cells. Forma-

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PRODUCT DATA SHEET

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lin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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