

Stromal interaction molecule 1 Rabbit mAb

Catalog No: #49165

Package Size: #49165-1 50ul #49165-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

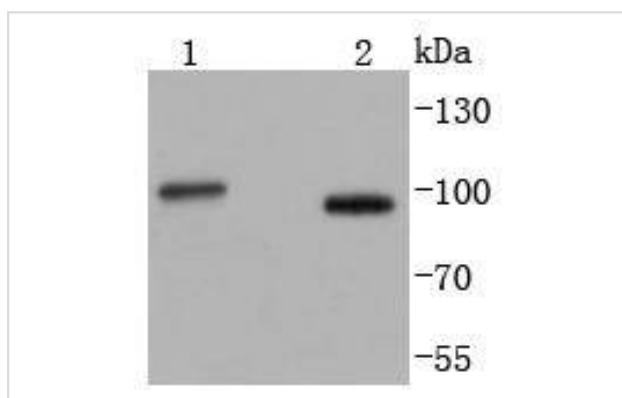
Description

| | |
|-----------------------|--|
| Product Name | Stromal interaction molecule 1 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | SD0814 |
| Purification | ProA affinity purified |
| Applications | WB, IHC, IP |
| Species Reactivity | Hu, Ms, Rt |
| Immunogen Description | recombinant protein |
| Other Names | D11S4896E antibody GOK antibody OTTHUMP00000164512 antibody OTTHUMP00000229140 antibody OTTHUMP00000230742 antibody SIM antibody STIM 1 antibody STIM1 antibody Stim1 stromal interaction molecule 1 antibody STIM1_HUMAN antibody STIM1L antibody Stromal interaction molecule 1 antibody |
| Accession No. | Swiss-Prot#:Q13586 |
| Uniprot | Q13586 |
| GeneID | 6786; |
| Calculated MW | 100 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

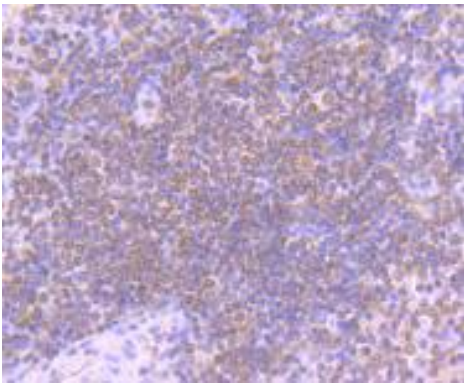
Application Details

WB: 1:1,000 IHC: 1:50-1:200

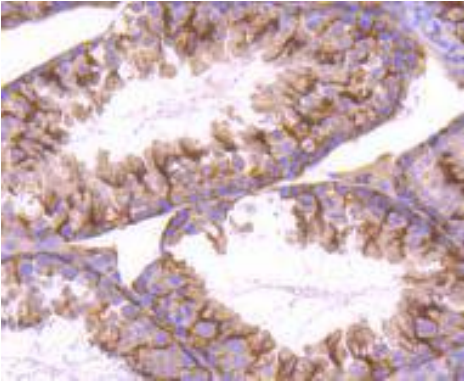
Images



Western blot analysis of STIM1 on different lysates using anti-STIM1 antibody at 1/1,000 dilution. Positive control:
Lane 1: K562 Lane 2: HepG2



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-STIM1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-STIM1 antibody. Counter stained with hematoxylin.

Background

Ca²⁺ influx is essential for a variety of cellular functions including, secretion and transcription. Stromal interaction molecule 1 (Stim1) is a ubiquitously expressed cell surface transmembrane glycoprotein that plays a role in mediating Ca²⁺ influx following the depletion of intracellular Ca²⁺ stores. Stim1 functions in the endoplasmic reticulum (ER) where it acts as a Ca²⁺ sensor via its EF-hand domain which causes large conformational changes. When Ca²⁺ levels drop, Stim1 translocates from the ER to the plasma membrane, where it activates the Ca²⁺ release-activated Ca²⁺ (CRAC) channel subunit, TMEM142A/Orai1. Stim2 is a potent inhibitor of Stim1-mediated store-operated calcium (SOC) entry. Stim1 is implicated in tumor growth suppression and stromal-hematopoietic cell interactions.

References

Note: This product is for in vitro research use only