

## Stromal interaction molecule 1 Rabbit mAb

Catalog No: #49165

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

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

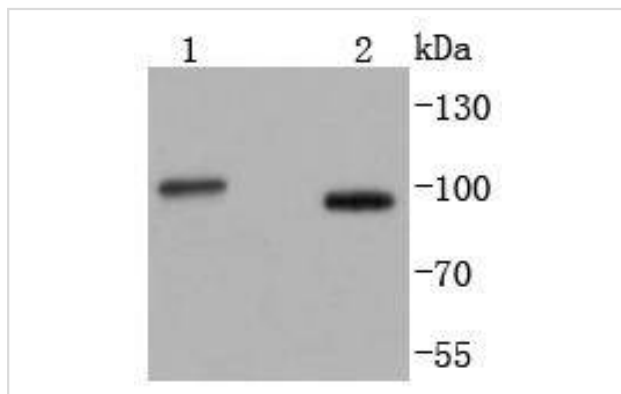
## Description

Product Name	Stromal interaction molecule 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SD0814
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
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
Calculated MW	100 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

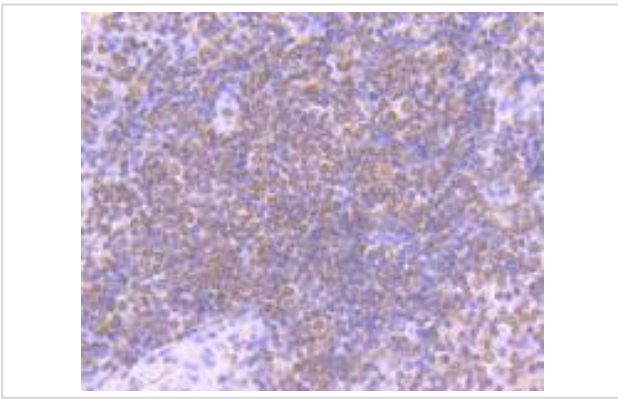
## Application Details

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

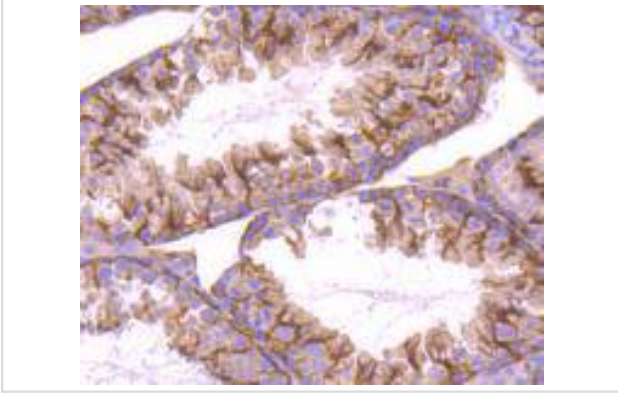
## Images



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

Ca<sup>2+</sup> 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 Ca<sup>2+</sup> influx following the depletion of intracellular Ca<sup>2+</sup> stores. Stim1 functions in the endoplasmic reticulum (ER) where it acts as a Ca<sup>2+</sup> sensor via its EF-hand domain which causes large conformational changes. When Ca<sup>2+</sup> levels drop, Stim1 translocates from the ER to the plasma membrane, where it activates the Ca<sup>2+</sup> release-activated Ca<sup>2+</sup> (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 and is not intended for use in humans or animals.