

## ARG56839 anti-STIM1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes STIM1
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	IHC-P, WB
Specificity	At least two isoforms of STIM1 are known to exist. This antibody will detect only the larger form. This STIM1 antibody is predicted to have no cross-reactivity to STIM2.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	STIM1
Species	Human
Immunogen	Synthetic peptide (24 aa) within the last 50 aa of Human STIM1.
Conjugation	Un-conjugated
Alternate Names	GOK; D11S4896E; Stromal interaction molecule 1; STRMK; TAM; TAM1; IMD10

### Application Instructions

Application table	Application	Dilution
	IHC-P	2.5 µg/ml
	WB	1 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse thymus tissue lysate	

### Properties

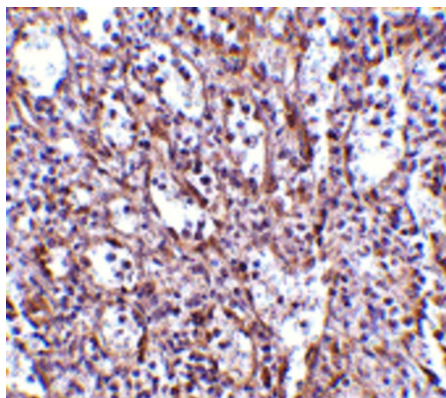
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

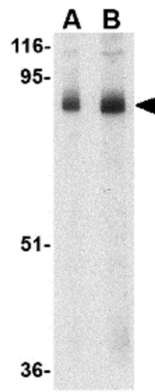
Database links	<a href="#">GeneID: 20866 Mouse</a> <a href="#">GeneID: 6786 Human</a> <a href="#">Swiss-port # P70302 Mouse</a> <a href="#">Swiss-port # Q13586 Human</a>
Gene Symbol	STIM1
Gene Full Name	stromal interaction molecule 1
Background	This gene encodes a type 1 transmembrane protein that mediates Ca <sup>2+</sup> influx after depletion of intracellular Ca <sup>2+</sup> stores by gating of store-operated Ca <sup>2+</sup> influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]
Function	Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores. Acts as Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca(2+) release-activated Ca(2+) (CRAC) channel subunit, TMEM142A/ORAI1. Involved in enamel formation. [UniProt]
Calculated Mw	77 kDa
PTM	Glycosylation is required for cell surface expression. Phosphorylated predominantly on Ser residues.

## Images



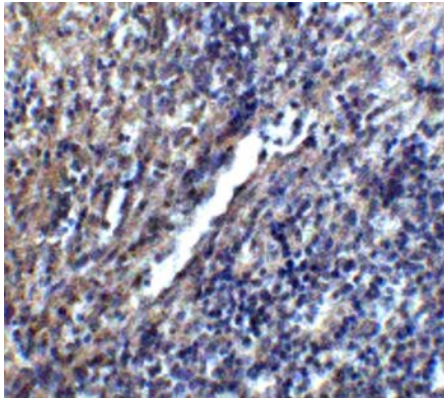
ARG56839 anti-STIM1 antibody IHC-P image

Immunohistochemistry: Human spleen tissue stained with ARG56839 anti-STIM1 antibody at 2.5 µg/ml dilution.



ARG56839 anti-STIM1 antibody WB image

Western blot: Mouse thymus tissue lysate stained with ARG56839 anti-STIM1 antibody at (A) 1 and (B) 2  $\mu\text{g}/\text{ml}$  dilution.



ARG56839 anti-STIM1 antibody IHC-P image

Immunohistochemistry: Mouse spleen tissue stained with ARG56839 anti-STIM1 antibody at 5  $\mu\text{g}/\text{ml}$  dilution.