

Stromal Interaction Molecule 1 Rabbit mAb
Catalog # AP76130**Specification****Stromal Interaction Molecule 1 Rabbit mAb - Product Information**

Application	WB
Primary Accession	Q13586
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	77423

Stromal Interaction Molecule 1 Rabbit mAb - Additional Information

Gene ID 6786

Other Names
STIM1**Dilution**
WB~~1/500-1/1000**Format**
Liquid**Stromal Interaction Molecule 1 Rabbit mAb - Protein Information**

Name STIM1

Synonyms GOK {ECO:0000303|PubMed:9377559}**Function**

Acts as a Ca(2+) sensor that gates two major inward rectifying Ca(2+) channels at the plasma membrane: Ca(2+) release- activated Ca(2+) (CRAC) channels and arachidonate-regulated Ca(2+)- selective (ARC) channels (PubMed: [15866891](http://www.uniprot.org/citations/15866891), PubMed: [16005298](http://www.uniprot.org/citations/16005298), PubMed: [16208375](http://www.uniprot.org/citations/16208375), PubMed: [16537481](http://www.uniprot.org/citations/16537481), PubMed: [16733527](http://www.uniprot.org/citations/16733527), PubMed: [16766533](http://www.uniprot.org/citations/16766533), PubMed: [16807233](http://www.uniprot.org/citations/16807233), PubMed: [18854159](http://www.uniprot.org/citations/18854159), PubMed: [19182790](http://www.uniprot.org/citations/19182790), PubMed: [19249086](http://www.uniprot.org/citations/19249086), PubMed: [19622606](http://www.uniprot.org/citations/19622606), PubMed: [19706554](http://www.uniprot.org/citations/19706554), PubMed: [22464749](http://www.uniprot.org/citations/22464749), PubMed: [24069340](http://www.uniprot.org/citations/24069340))

target="_blank">24069340, PubMed:24351972, PubMed:24591628, PubMed:25326555, PubMed:26322679, PubMed:28219928, PubMed:32415068). Plays a role in mediating store- operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates CRAC channel pore-forming subunits ORA1, ORA2 and ORA3 to generate sustained and oscillatory Ca(2+) entry (PubMed:16208375, PubMed:16537481, PubMed:32415068). Involved in enamel formation (PubMed:24621671).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Cytoplasm, cytoskeleton. Sarcoplasmic reticulum. Note=Translocates from the endoplasmic reticulum to the cell membrane in response to a depletion of intracellular calcium and is detected at punctae corresponding to junctions between the endoplasmic reticulum and the cell membrane (PubMed:16005298, PubMed:16208375, PubMed:18854159, PubMed:19182790, PubMed:19249086). Associated with the microtubule network at the growing distal tip of microtubules (PubMed:19632184). Colocalizes with ORA1 at the cell membrane (PubMed:27185316). Colocalizes preferentially with CASQ1 at endoplasmic reticulum in response to a depletion of intracellular calcium (PubMed:27185316)

Tissue Location

Ubiquitously expressed in various human primary cells and tumor cell lines.

Stromal Interaction Molecule 1 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Stromal Interaction Molecule 1 Rabbit mAb - Images



