

STIM1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2540a**Specification**

STIM1 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q13586
Other Accession	NP_003147.2 , 6786 , 20866 (mouse) , 361618 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	77423

STIM1 Antibody (internal region) - Additional Information**Gene ID** 6786**Other Names**

Stromal interaction molecule 1, STIM1, GOK

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

STIM1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

STIM1 Antibody (internal region) - 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) PubMed:[24351972](http://www.uniprot.org/citations/24351972) PubMed:[24591628](http://www.uniprot.org/citations/24591628) PubMed:[25326555](http://www.uniprot.org/citations/25326555) PubMed:[26322679](http://www.uniprot.org/citations/26322679) PubMed:[28219928](http://www.uniprot.org/citations/28219928) PubMed:[32415068](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/16208375) PubMed:[16537481](http://www.uniprot.org/citations/16537481) PubMed:[32415068](http://www.uniprot.org/citations/32415068)). Involved in enamel formation (PubMed:[24621671](http://www.uniprot.org/citations/24621671) PubMed:[24621671](http://www.uniprot.org/citations/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.

STIM1 Antibody (internal region) - 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](#)

STIM1 Antibody (internal region) - Images**STIM1 Antibody (internal region) - References**

STIM1 carboxyl-terminus activates native SOC, I(crac) and TRPC1 channels. Huang GN, Zeng W, Kim JY, Yuan JP, Han L, Muallem S, Worley PF. Nat Cell Biol. 2006 Aug 13; [Epub ahead of print] PMID: 16906149