10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

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
Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores (PubMed:15866891, PubMed:16005298, PubMed:<a href="http://www.uniprot.org/citations/16208375"

target="_blank">16208375, PubMed:16537481, PubMed:16733527, PubMed:16766533, PubMed:16807233, PubMed:18854159, PubMed:19249086, PubMed:22464749, PubMed:24069340, PubMed:24351972, PubMed:24591628, PubMed:26322679, PubMed:25326555, PubMed:28219928). Acts as a 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 ORAI1 (PubMed:16208375, PubMed:16537481). Involved in enamel formation (PubMed:24621671). Activated following interaction with STIMATE, leading to promote STIM1 conformational switch (PubMed:26322679).

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:19249086, PubMed:16005298, PubMed:16208375, PubMed:18854159) Associated with the microtubule network at the growing distal tip of microtubules (PubMed:19632184). Colocalizes with ORAI1 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 Cytomety
- 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]

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