

GOK / STIM1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11717**Specification**

GOK / STIM1 Antibody (C-Terminus) - Product Information

Application	IHC
Primary Accession	Q13586
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77kDa KDa

GOK / STIM1 Antibody (C-Terminus) - Additional Information**Gene ID** 6786**Other Names**

Stromal interaction molecule 1, STIM1, GOK

Target/Specificity

a 24 amino acid peptide from near the carboxy terminus of human STIM1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

GOK / STIM1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GOK / STIM1 Antibody (C-Terminus) - 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](http://www.uniprot.org/citations/15866891) target="_blank">15866891, PubMed: [16005298](http://www.uniprot.org/citations/16005298) target="_blank">16005298, PubMed: [16208375](http://www.uniprot.org/citations/16208375) target="_blank">16208375, PubMed: [16537481](http://www.uniprot.org/citations/16537481) target="_blank">16537481, PubMed: [16733527](http://www.uniprot.org/citations/16733527) target="_blank">16733527, PubMed: [16766533](http://www.uniprot.org/citations/16766533) target="_blank">16766533, PubMed: [16807233](http://www.uniprot.org/citations/16807233) target="_blank">16807233, PubMed: [18854159](http://www.uniprot.org/citations/18854159) target="_blank">18854159, PubMed: [19249086](http://www.uniprot.org/citations/19249086) target="_blank">19249086, PubMed: [22464749](http://www.uniprot.org/citations/22464749)

target="_blank">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

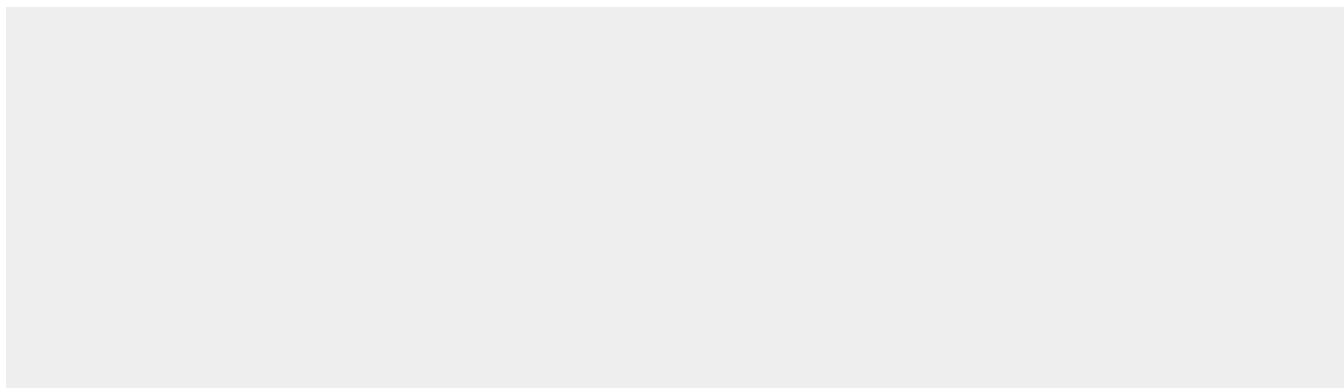
Ubiquitously expressed in various human primary cells and tumor cell lines.

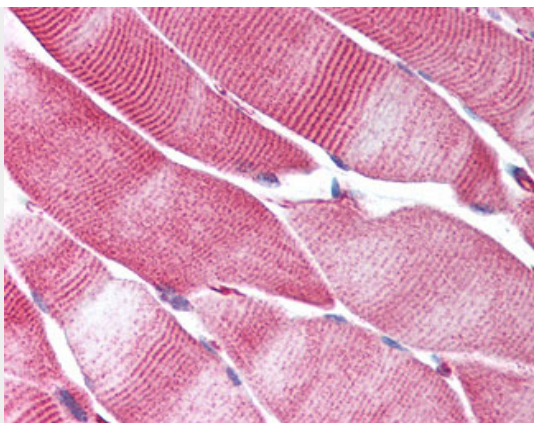
GOK / STIM1 Antibody (C-Terminus) - Protocols

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](#)

GOK / STIM1 Antibody (C-Terminus) - Images





Anti-STIM1 antibody IHC of human skeletal muscle.

GOK / STIM1 Antibody (C-Terminus) - Background

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.

GOK / STIM1 Antibody (C-Terminus) - References

Parker N.J., et al. Genomics 37:253-256(1996).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Taylor T.D., et al. Nature 440:497-500(2006).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Sabbioni S., et al. Cancer Res. 57:4493-4497(1997).