

**Anti-GOK / STIM1 Antibody (N-Terminus)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17897****Specification**

---

**Anti-GOK / STIM1 Antibody (N-Terminus) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P, E           |
| Primary Accession | <a href="#">Q13586</a> |
| Predicted         | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 77423                  |

**Anti-GOK / STIM1 Antibody (N-Terminus) - Additional Information****Gene ID** 6786**Alias Symbol** **STIM1**  
**Other Names**  
STIM1, D11S4896E, Stromal interaction molecule 1, GOK, STIM1L**Target/Specificity**

BLAST analysis suggests cross-reactivity with rat, bovine, and mouse based on 100% sequence homology.

**Reconstitution & Storage**

Immunoaffinity purified

**Precautions**

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

**Anti-GOK / STIM1 Antibody (N-Terminus) - Protein Information****Name** STIM1**Synonyms** GOK {ECO:0000303|PubMed:9377559}**Function**

Plays a role in mediating store-operated  $\text{Ca}^{2+}$  entry (SOCE), a  $\text{Ca}^{2+}$  influx following depletion of intracellular  $\text{Ca}^{2+}$  stores (PubMed: [15866891](http://www.uniprot.org/citations/15866891) target="\_blank">15866891</a>, PubMed: [16005298](http://www.uniprot.org/citations/16005298) target="\_blank">16005298</a>, PubMed: [16208375](http://www.uniprot.org/citations/16208375) target="\_blank">16208375</a>, PubMed: [16537481](http://www.uniprot.org/citations/16537481) target="\_blank">16537481</a>, PubMed: [16733527](http://www.uniprot.org/citations/16733527) target="\_blank">16733527</a>, PubMed: [16766533](http://www.uniprot.org/citations/16766533) target="\_blank">16766533</a>, PubMed: [16807233](http://www.uniprot.org/citations/16807233) target="\_blank">16807233</a>, PubMed: [18854159](http://www.uniprot.org/citations/18854159)

target="\_blank">18854159</a>, PubMed:<a href="http://www.uniprot.org/citations/19249086" target="\_blank">19249086</a>, PubMed:<a href="http://www.uniprot.org/citations/22464749" target="\_blank">22464749</a>, PubMed:<a href="http://www.uniprot.org/citations/24069340" target="\_blank">24069340</a>, PubMed:<a href="http://www.uniprot.org/citations/24351972" target="\_blank">24351972</a>, PubMed:<a href="http://www.uniprot.org/citations/24591628" target="\_blank">24591628</a>, PubMed:<a href="http://www.uniprot.org/citations/26322679" target="\_blank">26322679</a>, PubMed:<a href="http://www.uniprot.org/citations/25326555" target="\_blank">25326555</a>, PubMed:<a href="http://www.uniprot.org/citations/28219928" target="\_blank">28219928</a>). 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:<a href="http://www.uniprot.org/citations/16208375" target="\_blank">16208375</a>, PubMed:<a href="http://www.uniprot.org/citations/16537481" target="\_blank">16537481</a>). Involved in enamel formation (PubMed:<a href="http://www.uniprot.org/citations/24621671" target="\_blank">24621671</a>). Activated following interaction with STIMATE, leading to promote STIM1 conformational switch (PubMed:<a href="http://www.uniprot.org/citations/26322679" target="\_blank">26322679</a>).

### 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.

## Anti-GOK / STIM1 Antibody (N-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](#)

## Anti-GOK / STIM1 Antibody (N-Terminus) - Images