

Datasheet for ABIN2782215  
**anti-STIM1 antibody (Middle Region)**

## 3 Images

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## Overview

|                      |                                                |
|----------------------|------------------------------------------------|
| Quantity:            | 100 µL                                         |
| Target:              | STIM1                                          |
| Binding Specificity: | Middle Region                                  |
| Reactivity:          | Human, Rat, Mouse, Dog, Cow, Guinea Pig, Horse |
| Host:                | Rabbit                                         |
| Clonality:           | Polyclonal                                     |
| Conjugate:           | This STIM1 antibody is un-conjugated           |
| Application:         | Western Blotting (WB)                          |

## Product Details

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human STIM1                                          |
| Sequence:             | LDSSRSHSPS SPDPDTPSPV GDSRALQASR NTRIPHLAGK KAVAEEDNGS                                                                          |
| Predicted Reactivity: | Cow: 86%, Dog: 86%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 100%, Rat: 100%                                            |
| Characteristics:      | This is a rabbit polyclonal antibody against STIM1. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified                                                                                                               |

## Target Details

|                   |                                          |
|-------------------|------------------------------------------|
| Target:           | STIM1                                    |
| Alternative Name: | STIM1 ( <a href="#">STIM1 Products</a> ) |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background:       | <p>This gene encodes a type 1 transmembrane protein that mediates Ca<sup>2+</sup> influx after depletion of intracellular Ca<sup>2+</sup> stores by gating of store-operated Ca<sup>2+</sup> influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene.</p> <p>Alias Symbols: D11S4896E, GOK, STIM1L</p> <p>Protein Interaction Partner: MAPRE1, UBC, SUMO1, NEDD8, S100A16, SEPT11, SEC22B, SF1, CAT, PRKAA2, STIM2, STIM1,</p> <p>Protein Size: 685</p> |
| Molecular Weight: | 75 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene ID:          | 6786                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NCBI Accession:   | <a href="#">NM_003156</a> , <a href="#">NP_003147</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt:          | <a href="#">Q13586</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pathways:         | <a href="#">TCR Signaling</a> , <a href="#">BCR Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Application Details

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment:           | Antigen size: 685 AA                                                               |
| Restrictions:      | For Research Use only                                                              |

## Handling

|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                              |
| Concentration:     | Lot specific                                                                                        |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative:      | Sodium azide                                                                                        |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which                       |

Handling

|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                  | should be handled by trained staff only.                                                                                                |
| Handling Advice: | Avoid repeated freeze-thaw cycles.                                                                                                      |
| Storage:         | -20 °C                                                                                                                                  |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Images

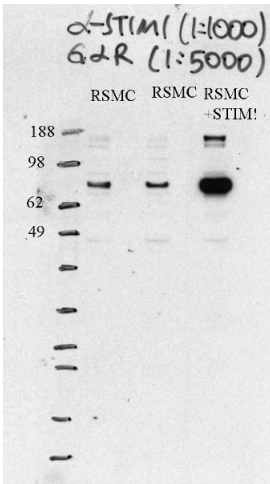


Western Blotting

**Image 1.** WB Suggested Anti-STIM1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: PANC1 cell lysate STIM1 is supported by BioGPS gene expression data to be expressed in PANC1

Western Blotting

**Image 2.** WB Suggested Anti-STIM1 Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:12500 Positive Control: PANC1 cell lysate STIM1 is supported by BioGPS gene expression data to be expressed in PANC1



Western Blotting

Image 3. RSMC cells