

## Product datasheet

### Anti-STIM2 antibody ab59342

★★★★★ [5 Abreviews](#) [7 References](#) [1 Image](#)

#### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-STIM2 antibody   |
| <b>Description</b>         | Rabbit polyclonal to STIM2  |
| <b>Host species</b>        | Rabbit  |
| <b>Specificity</b>         | ab59342 is predicted to have no cross-reactivity to STIM1.  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse   |
| <b>Immunogen</b>           | Synthetic peptide corresponding to Human STIM2 (C terminal).  |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

#### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C.                       |
| <b>Storage buffer</b>       | Preservative: 0.02% Sodium azide<br>Constituent: PBS |
| <b>Purity</b>               | Affinity purified                                    |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |

#### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab59342 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| WB          | ★★★★★ (4) | Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 95 kDa (predicted molecular weight: 84 kDa). |

## Target

### Function

Functions as a highly sensitive Ca(2+) sensor in the endoplasmic reticulum which activates both store-operated and store-independent Ca(2+)-influx. Regulates basal cytosolic and endoplasmic reticulum Ca(2+) concentrations. Upon mild variations of the endoplasmic reticulum Ca(2+) concentration, translocates from the endoplasmic reticulum to the plasma membrane where it probably activates the Ca(2+) release-activated Ca(2+) (CRAC) channels ORAI1, ORAI2 and ORAI3. May inhibit STIM1-mediated Ca(2+) influx.

### Tissue specificity

Expressed in all tissues and tumor cell lines examined.

### Sequence similarities

Contains 1 EF-hand domain.  
Contains 1 SAM (sterile alpha motif) domain.

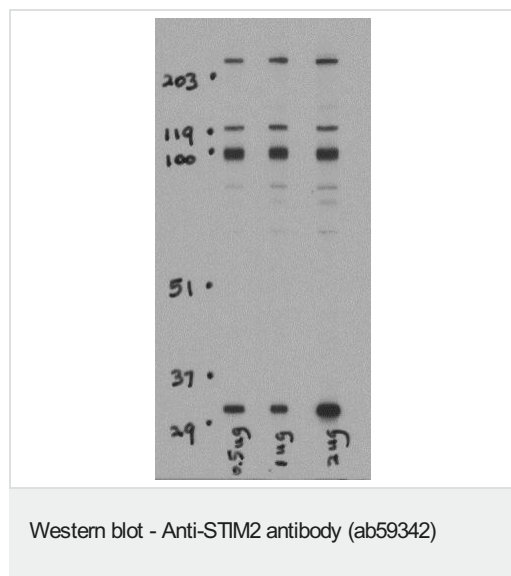
### Post-translational modifications

Glycosylated.  
Phosphorylated predominantly on Ser residues.

### Cellular localization

Endoplasmic reticulum membrane. Dynamically translocates from a uniform endoplasmic reticulum distribution to punctual endoplasmic reticulum-plasma membrane junctions in response to decrease in endoplasmic reticulum Ca(2+) concentration.

## Images



**Lane 1** : Anti-STIM2 antibody (ab59342) at 0.5 µg/ml

**Lane 2** : Anti-STIM2 antibody (ab59342) at 1 µg/ml

**Lane 3** : Anti-STIM2 antibody (ab59342) at 2 µg/ml

**All lanes** : A-20 cell lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 84 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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