

## Product datasheet for **TA328646**

### STIM2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide SAEKQWEVPDTASEC, corresponding to amino acid residues 583-597 of human STIM2. Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	stromal interaction molecule 2
Database Link:	<a href="#">NP_065911</a> <a href="#">Entrez Gene 116873 Mouse</a> <a href="#">Entrez Gene 117087 Rat</a> <a href="#">Entrez Gene 57620 Human</a> <a href="#">Q9P246</a>



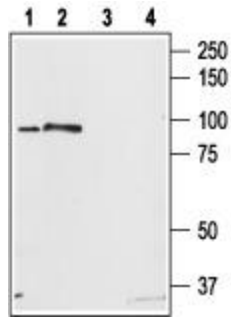
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**Background:**

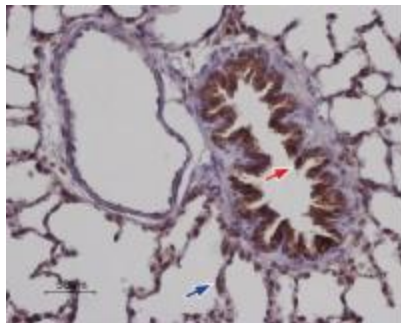
Cytosolic Ca<sup>2+</sup> has long been known to act as a key second messenger in many intracellular pathways including synaptic transmission, muscle contraction, hormonal secretion, cell growth and proliferation. The mechanism controlling the influx of intracellular Ca<sup>2+</sup> either by calcium-release-activated Ca<sup>2+</sup> channels (CRAC) or from intracellular stores has lately become the focus of intense research. Recently, several key players of the store-operated complex have been identified: the Orai family consists of three members: Orai1-3, and the STIM family, which consists of two members, STIM1 and STIM2. Orai1 (also known as CRACM1) acts as the store-operated calcium channel (SOC) and STIM1 as the endoplasmic reticulum (ER) Ca<sup>2+</sup> sensor. While STIM1 appears to be localized intracellularly at the ER membrane and at a much lower extent on the cell surface of several cell types, STIM2 appears to be localized solely at the ER membrane. The function of STIM2 still remains elusive and several models have been suggested.

**Synonyms:**

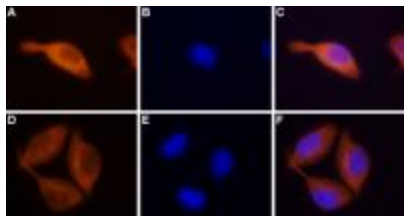
FLJ39527; KIAA1482

**Product images:**


Western blot analysis of rat brain (lanes 1, 3) and RBL cell (lanes 2, 4) lysates: 1. Anti-STIM2 antibody, (1:200). 2. Anti-STIM2 antibody, preincubated with the control peptide antigen.



Expression of STIM2 in rat lung. Immunohistochemical staining of paraffin embedded rat lung sections using Anti-STIM2 antibody, (1:100). Staining is present in the respiratory epithelium of the bronchiole (red) as well as in the pneumonocytes of the alveolar wall (blue). Color reaction was obtained with SuperPicture HRP-conjugated polymer (Zymed) followed by DAB. Hematoxylin is used as the counterstain.



Expression of STIM2 in RBL cells. Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat basophilic leukemia (RBL) cells. A, D. Cells stained with Anti-STIM2 antibody, (1:100) followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B, E. Nuclear staining of cells using the cell-permeable dye Hoechst 33342. C. Merged image of panels A and B. F. Merged image of panels D and E.