

STIM2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12545a**Specification**

STIM2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9P246](#)**STIM2 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 57620**Other Names**

Stromal interaction molecule 2, STIM2, KIAA1482

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

STIM2 Antibody (N-term) Blocking peptide - Protein Information**Name** STIM2**Synonyms** KIAA1482**Function**

Plays a role in mediating store-operated Ca^{2+} entry (SOCE), a Ca^{2+} influx following depletion of intracellular Ca^{2+} stores. 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.

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Note=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

Tissue Location

Expressed in all tissues and tumor cell lines examined.

STIM2 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

STIM2 Antibody (N-term) Blocking peptide - Images

STIM2 Antibody (N-term) Blocking peptide - Background

This gene is a member of the stromal interaction molecule(STIM) family and likely arose, along with related family member STIM1, from a common ancestral gene. The encoded protein functions to regulate calcium concentrations in the cytosol and endoplasmic reticulum, and is involved in the activation of plasma membrane Orai Ca(2+) entry channels. This gene initiates translation from a non-AUG (UUG) start site. A signal peptide is cleaved from the resulting protein. Multiple transcript variants result from alternative splicing.

STIM2 Antibody (N-term) Blocking peptide - References

Darbellay, B., et al. J. Biol. Chem. 285(29):22437-22447(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :El Boustany, C., et al. Cell Calcium 47(4):350-359(2010) Zhou, Y., et al. J. Biol. Chem. 284(29):19164-19168(2009) Parvez, S., et al. FASEB J. 22(3):752-761(2008)