

Product datasheet

STIM2 peptide ab176417

Description

Product name	STIM2 peptide
Animal free	No
Nature	Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab176417** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Blocking - Blocking peptide for Anti-STIM2 antibody (ab59342)
Form	Liquid

Preparation and Storage

Stability and Storage	Store at -20°C.
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General Info

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.

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