
STIM1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 253719

Unit: 0.1 mg

Description:

In T lymphocytes, the sole pathway for Ca⁺⁺ entry following antigen-receptor binding is through store-operated Ca⁺⁺-release-activated Ca⁺⁺ (CRAC) channels. These channels are made up of the pore-forming subunit ORAI1 and the stromal interaction molecule 1 (STIM1), a protein that functions as a Ca⁺⁺ sensor and activates the CRAC channels, migrating to the plasma membrane from endoplasmic reticulum (ER)-like sites which act as the Ca⁺⁺ store. A related molecule, STIM2, acts to inhibit the STIM1-mediated store-operated Ca⁺⁺ entry, and can form complexes with STIM1, suggesting they may play a coordinated role in controlling Ca⁺⁺ entry. At least two isoforms of STIM1 are known to exist; this antibody will detect only the larger form. This STIM1 antibody is predicted to have no cross-reactivity to STIM2.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: STIM1; Stromal interaction molecule 1

Accession No.: NP_003147

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human STIM1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.