
ORAI3 (2H2G9) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 253272

Unit: 0.1 mg

Description:

Antigen stimulation of immune cells triggers Ca⁺⁺ entry through Ca⁺⁺ release-activated Ca⁺⁺ (CRAC) channels. ORAI3 is one of two mammalian homologs to ORAI1, a recently identified four-transmembrane spanning protein that is an essential component of CRAC. All three homologs have been shown to function as Ca⁺⁺ plasma membrane channels gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca⁺⁺ sensor. However, ORAI3 channels failed to produce detectable Ca⁺⁺ selective currents in cells co-transfected with ORAI3 and STIM1, indicating that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. Na⁺ currents through ORAI1, 2 and 3 channels were equally inhibited by extracellular Ca⁺⁺, indicating that each have similar affinities for Ca⁺⁺ within the selectivity filter. This antibody is predicted to have no cross-reactivity to ORAI1 or ORAI2. Larger molecular weight bands are sometimes seen in SDS-PAGE; these may represent post-translationally modified ORAI 3.

Isotype: mouse IgG1

Applications: E, WB, IHC

Species Reactivity: H, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.02% sodium azide. Antibody was purified by Protein-A affinity chromatography.

Alternate Names: ORAI3; Transmembrane protein 142C; TMEM142C; Calcium release-activated calcium channel protein 3

Accession No.: Q9BRQ5

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ORAI3.

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

Storage: Store at 4°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.