
ORAI1 (6D11A11) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 253283

Unit: 0.1 mg

Description:

Antigen stimulation of immune cells triggers Ca⁺⁺ entry through Ca⁺⁺ release-activated Ca⁺⁺ (CRAC) channels. ORAI1 is a recently identified four-transmembrane spanning protein that is an essential component of CRAC. A missense mutation in this protein in humans is the cause of one form of hereditary severe combined immune deficiency (SCID) which results in ablated T-cell Ca⁺⁺ entry. It has been suggested that ORAI1 functions as a highly selective Ca⁺⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca⁺⁺ sensor. ORAI1 often migrates at a higher than expected molecular weight in SDS-PAGE. This antibody is predicted to have no cross-reactivity to ORAI2 or ORAI3.

Isotype: mouse IgG1

Applications: E, WB, IHC

Species Reactivity: H, M, 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: ORAI1; Transmembrane protein 142A; TMEM142A; Calcium release-activated calcium channel protein 1

Accession No.: Q96D31

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ORAI1.

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.