

Product datasheet for **TA328751**

Orai2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CPEPGHKGM DYRDWVRR, corresponding to amino acid residues 16-32 of mouse Orai2. Intracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ORAI calcium release-activated calcium modulator 2
Database Link:	NP_848866 Entrez Gene 80228 Human Q8BH10



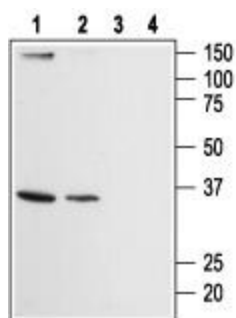
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Background:

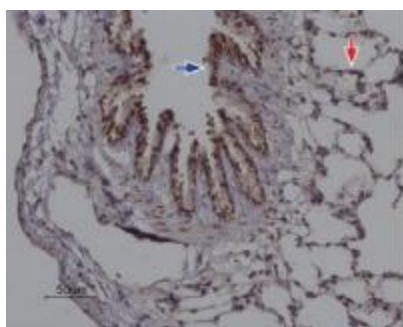
Cytosolic Ca²⁺ has long been known to act as a key second messenger in many intracellular pathways including synaptic transmission, muscle contraction, hormonal secretion, and cell growth and proliferation. The mechanism controlling intracellular Ca²⁺ level influx, either by the calcium-release-activated Ca²⁺ channels (CRAC) or from intracellular stores, has become of great interest. Recently, several key players of the store-operated complex have been identified: the Orai family consisting of three members, Orai1-3, and the STIM family, which consists of two members, STIM1 and STIM2. Orai1 (also known as CRACM1) acts as the store-operated calcium channel (SOC) and STIM1 as the endoplasmic reticulum Ca²⁺ sensor. Orai1, Orai2, and Orai3 are all capable of forming store-operated channels. Co-expression of Orai2 and STIM1 was shown to produce currents that appear similar but smaller than those produced by co-expression of Orai1 and STIM1. Orai2 transcripts are predominantly expressed in kidney, lung, and spleen, and it appears that Orai2 is the only Orai isoform with multiple transcripts.

Synonyms:

C7orf19; CBCIP2; FLJ12474; FLJ14733; FLJ44818; H_NH0514P08.8; MEM142B; TMEM142B

Product images:

Western blot analysis of HL-60 (lanes 1 and 3) and Jurkat (lanes 2 and 4) cell lysates: 1, 2. Anti-Orai2 antibody, (1:200). 3, 4. Anti-Orai2 antibody, preincubated with the control peptide antigen.



Expression of Orai2 in rat lung. Immunohistochemical staining of paraffin-embedded rat lung sections using Anti-Orai2 antibody, (1:100). Strong and specific staining is evident in bronchiolar epithelium (blue) and alveoli walls (red). Hematoxylin is used as the counterstain.