# ORAI3 Monoclonal Antibody

Catalog No: #26029

Package Size: #26029 100ul

Signalway Antibody
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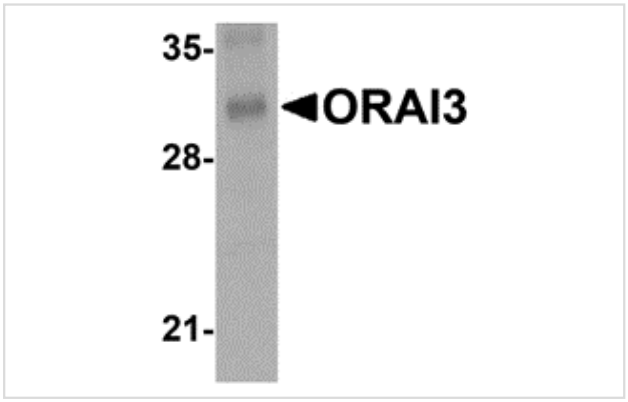
## Description

| | |
|---|---|
| Product Name | ORAI3 Monoclonal Antibody |
| Host Species | Mouse |
| Clonality | Monoclonal |
| Clone No. | mAb (Clone 1B4F1) |
| Purification | Immunoaffinity chromotography purified IgG |
| Applications | ELISA WB |
| Species Reactivity | Hu Rt |
| Immunogen Type | Peptide |
| Immunogen Description | A 19 amino acid peptide from near the carboxy terminus of human ORAI3. |
| Conjugates | Unconjugated |
| Target Name | ORAI3 |
| Other Names | ORAI3 (1B4F1), Transmembrane protein 142C, TMEM142C, Calcium release-activated calcium channel protein 3 |
| Accession No. | Swiss-Prot:Q9BRQ5Gene ID:93129 |
| Concentration | 1mg/ml |
| Formulation | Supplied in PBS containing 0.02% sodium azide. |
| Storage | Can be stored at -20°C, stable for one year. |

## Images




Western blot analysis of ORAI3 in rat lung tissue lysate with ORAI3 antibody at 2 ug/mL.

## Background

Antigen stimulation of immune cells triggers Ca++ entry t hrough 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.