

Datasheet for 200-301-DH3**Orai3 Antibody [1B4F1]****Overview**

Description:	Anti-Orai3 (MOUSE) Antibody - 200-301-DH3
Item No.:	200-301-DH3
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Rat
Host Species:	Mouse

Product Details

Background:	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.
Synonyms:	Orai3 Antibody [1B4F1] , TMEM142C
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[1B4F1]
Format:	IgG2b

Target Details

Gene Name:	Orai3
Reactivity:	Human, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ORAI3 antibody was produced in mice by repeated immunizations of a 19 amino acid synthetic peptide from near the C-terminus of human ORAI3.
Purity/Specificity:	Anti-ORAI3 Monoclonal Antibody is immunoaffinity chromatography purified IgG. Cross reactivity with ORAI3 [1B4F1] from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BRQ5 • GeneID - 93129 • NCBI - NP_689501.1

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-ORAI3 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 31 kDa in Western Blots of specific cell lysates and tissues. Validated in rat samples. All other applications and species not yet tested.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
WB:	2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

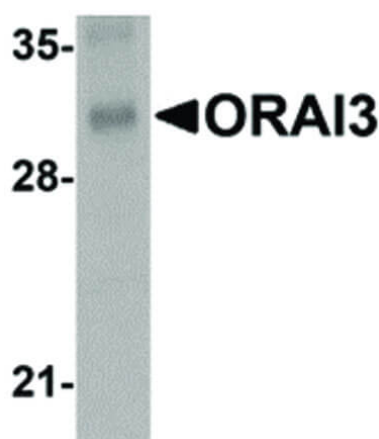
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Mouse anti-ORAI3 antibody. Lane A: rat lung tissue lysate. Primary antibody: ORAI3 antibody at 2 µg/mL overnight at 4°C. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 31kDa, 31 kDa for ORAI3.

Disclaimer

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