

Datasheet for 200-301-DH4**ORAI3 Antibody [2H2G9]****Overview**

Description:	Anti-ORAI3 (MOUSE) Antibody - 200-301-DH4
Item No.:	200-301-DH4
Size:	100 µg
Applications:	ELISA, IF, IHC, 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 [2H2G9] , TMEM142C
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[2H2G9]
Format:	IgG2a

Target Details

Gene Name:	ORAI3
Reactivity:	Human, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ORAI3 antibody was produced in mice by repeated immunizations with a 19 amino acid synthetic peptide from near the C-terminus of human ORAI3.
Purity/Specificity:	Anti-ORAI3 Monoclonal Antibody was immunoaffinity chromatography purified IgG. Cross reactivity with ORAI3 [2H2G9] from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BRQ5 • GeneID - 93129 • NCBI - NP_689501.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ORAI3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry-P and Immunofluorescence. 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. WB and IHC validated in rat samples, IF validated in rat and human 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
IF:	5 µg/mL
IHC:	2.5 µg/mL
WB:	1µg/mL

Formulation

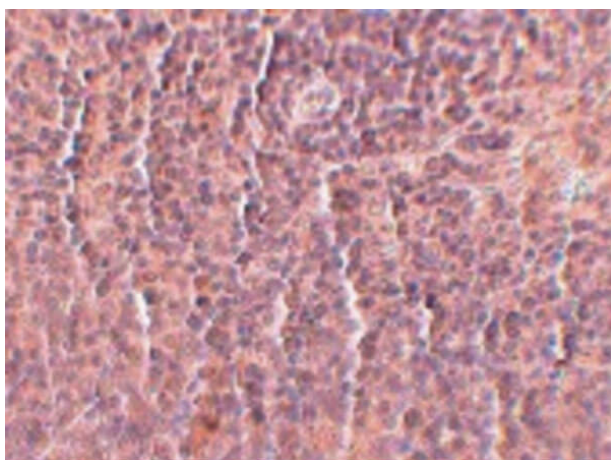
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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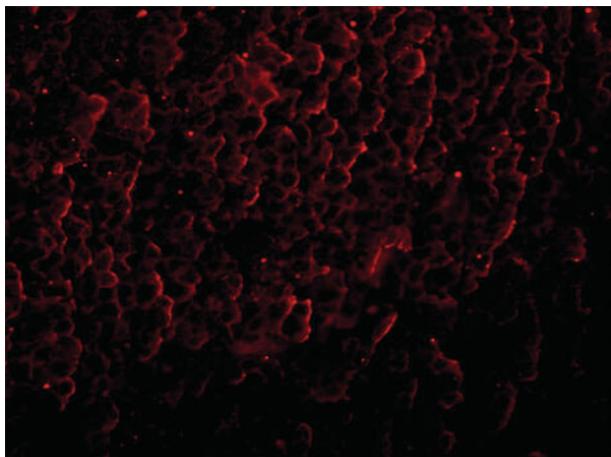
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



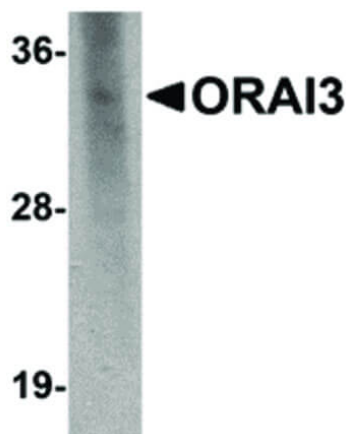
Immunohistochemistry

Immunohistochemistry of Mouse anti-ORAI3 antibody.
Tissue: rat spleen. Primary antibody: ORAI3 antibody at 2.5 µg/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:2,500. Localization: ORAI3 is on the membrane.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Mouse anti-ORAI3 antibody. Tissue: rat spleen. Primary antibody: ORAI3 antibody at 5 µg/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:5,000. Localization: ORAI3 is located in the endomembrane system. Staining: ORAI3 as red fluorescent signal.

**Western Blot**

Western Blot of Mouse anti-ORAI3 antibody. Lane A: rat spleen lysate. Primary antibody: ORAI3 antibody at 2 µg/mL overnight at 4°C. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Observed size: 32 kDa, 32 kDa for ORAI3.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.