

Datasheet for 600-401-H07**ORAI2 Antibody****Overview**

Description:	Anti-ORAI2 (RABBIT) Antibody - 600-401-H07
Item No.:	600-401-H07
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ORAI2 antibody detects human ORAI. Antigen stimulation of immune cells triggers Ca ⁺⁺ entry through Ca ⁺⁺ release-activated Ca ⁺⁺ (CRAC) channels. ORAI2 is one of two mammalian homologs to ORAI1, a recently identified four-transmembrane spanning protein that is an essential component of CRAC. Like ORAI1, ORAI2 has been shown to function as a highly selective Ca ⁺⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca ⁺⁺ sensor, although at a lesser efficacy than ORAI1. This antibody is predicted to have no cross-reactivity to ORAI1 or ORAI3. Anti-ORAI2 antibodies are ideal for investigators involved cell cycle protein and enzyme research.
Synonyms:	Protein orai-2, CAP-binding protein complex-interacting protein 2, Transmembrane protein 142B, ORAI2, C7orf19, CBCIP2, TMEM142B, PP1729
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ORAI2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	ORAI2 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of human ORAI2.

Purity/Specificity: Anti-ORAI2 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with ORAI2 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with ORAI2 from other sources has not been determined.

Relevant Links:

- [NCBI - NP_001119812.1](#)
- [UniProtKB - Q96SN7](#)
- [GeneID - 80228](#)

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ORAI2 Antibody is tested for use in E, WB, IF, and ICC. Expect a band approximately ~28.5 kDa on specific lysates. Western Blot, Immunocytochemistry, and Immunofluorescence tested in human samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	20µg/mL
WB:	1-4µg/mL

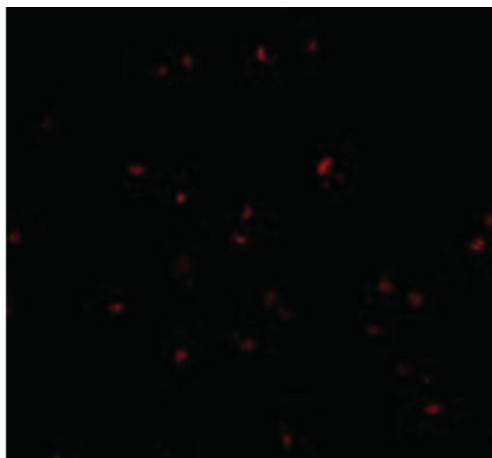
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

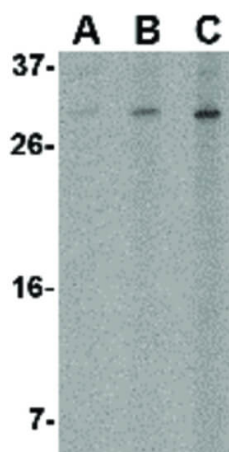
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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



Immunofluorescence Microscopy

Immunofluorescence Microscopy of ORAI2 antibody.
 Tissue: Jurkat cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ORAI2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: ORAI2 as red fluorescent signal.



Western Blot

Western Blot of ORAI2 antibody. Lane A: Jurkat cell lysate at 1 µg/mL. Lane B: Jurkat cell lysate at 2 µg/mL. Lane C: Jurkat cell lysate at 4 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 11.5 kDa, ~30 kDa for ORAI2.

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.