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## Datasheet for ABIN6990191 **anti-ORAI3 antibody (C-Term)**

### Overview

Quantity:	0.1 mg
Target:	ORAI3
Binding Specificity:	C-Term
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ORAI3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

### Product Details

Immunogen:	A 19 amino acid synthetic peptide from near the carboxy terminus of human ORAI3.
Clone:	2H2G9
Isotype:	IgG2a
Purification:	ORAI3 Monoclonal Antibody is immunoaffinity chromatography purified IgG.

### Target Details

Target:	ORAI3
Alternative Name:	ORAI3 ( <a href="#">ORAI3 Products</a> )
Background:	ORAI3 Monoclonal Antibody: Antigen stimulation of immune cells triggers Ca <sup>++</sup> entry through

## Target Details

Ca<sup>++</sup> release-activated Ca<sup>++</sup> (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<sup>++</sup> plasma membrane channels gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca<sup>++</sup> sensor. However, ORAI3 channels failed to produce detectable Ca<sup>++</sup> 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<sup>+</sup> currents through ORAI1, 2 and 3 channels were equally inhibited by extracellular Ca<sup>++</sup>, indicating that each have similar affinities for Ca<sup>++</sup> 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.

Molecular Weight: Predicted: 32 kDa

Observed: 32 kDa

Gene ID: 93129

UniProt: [Q9BRQ5](#)

## Application Details

Application Notes: ORAI3 antibody can be used for detection of ORAI3 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 5 µg/mL.

Antibody validated: Western Blot in rat samples, Immunohistochemistry in rat samples and Immunofluorescence in human and rat samples. All other applications and species not yet tested.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: ORAI3 Monoclonal Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

## Handling

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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	ORAI3 monoclonal antibody can be stored at -20°C, stable for one year.
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