

Anti-ORAI3 Monoclonal Antibody [2H2G9]

Catalog Number: M09399

About ORAI3

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.

Overview

Product Name	Anti-ORAI3 Monoclonal Antibody [2H2G9]
Reactive Species	Human, Rat
Description	Boster Bio Anti-ORAI3 Monoclonal Antibody [2H2G9] (Catalog # M09399). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Monoclonal Clone: 2H2G9
Formulation	ORAI3 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ORAI3 monoclonal antibody can be stored at -20°C , stable for one year.
Host	Mouse
Uniprot ID	Q9BRQ5

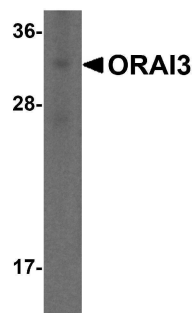
Technical Details

Immunogen	A 19 amino acid synthetic peptide from near the carboxy terminus of human ORAI3.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG2a
Form	Liquid
Concentration	1 mg/mL
Purification	ORAI3 Monoclonal Antibody is immunoaffinity chromatography purified IgG.

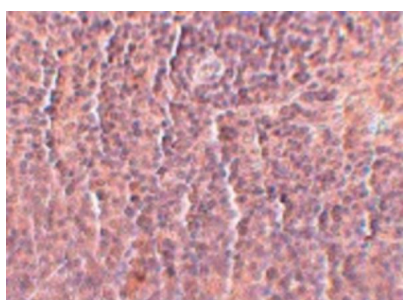
Suggested Dilutions

ORAI3 antibody can be used for detection of ORAI3 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 5 ug/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. Optimal dilutions for each application should be determined by the researcher.

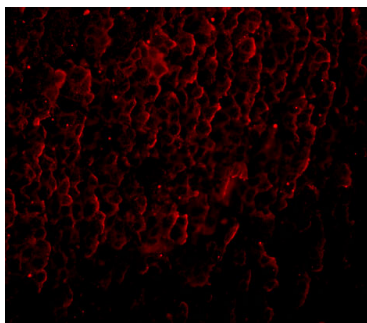
Anti-ORAI3 Monoclonal Antibody [2H2G9] (M09399) Images



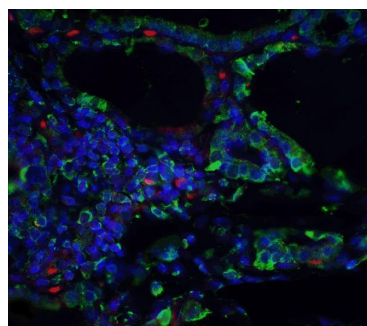
Western blot analysis of ORAI3 in rat spleen lysate with ORAI3 antibody at 1 ug/mL.



Immunohistochemistry of ORAI3 in rat spleen tissue with ORAI3 antibody at 2.5 ug/mL.



Immunofluorescence of ORAI3 in rat spleen tissue with ORAI3 antibody at 5 ug/mL.



Immunofluorescence of ORAI3 in human spleen tissue with ORAI3 antibody at 5 ug/mL. Green: ORAI3 antibody (M09399)
Red: Phalloidin staining Blue: DAPI staining

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