

Anti-ORAI1 Monoclonal Antibody [3F6H5]

Catalog Number: M00909

About ORAI1

Antigen stimulation of immune cells triggers Ca⁺⁺ entry through Ca⁺⁺ release-activated Ca⁺⁺ (CRAC) channels. ORAI1 is a recently identified four-transmembrane spanning protein that is an essential component of CRAC. A missense mutation in this protein in humans is the cause of one form of hereditary severe combined immune deficiency (SCID) which results in ablated T-cell Ca⁺⁺ entry. It has been suggested that ORAI1 functions as a highly selective Ca⁺⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca⁺⁺ sensor. ORAI1 often migrates at a higher than expected molecular weight in SDS-PAGE. This antibody is predicted to have no cross-reactivity to ORAI2 or ORAI3.

Overview

Product Name	Anti-ORAI1 Monoclonal Antibody [3F6H5]
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ORAI1 Monoclonal Antibody [3F6H5] (Catalog # M00909). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Monoclonal Clone: 3F6H5
Formulation	ORAI1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ORAI1 monoclonal antibody can be stored at -20°C, stable for one year.
Host	Mouse
Uniprot ID	Q96D31

Technical Details

Immunogen	Mouse monoclonal ORAI1 antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human ORAI1.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	ORAI1 antibody is predicted to have no cross reactivity to other members in the ORAI family.
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	ORAI1 Monoclonal Antibody is Protein A purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

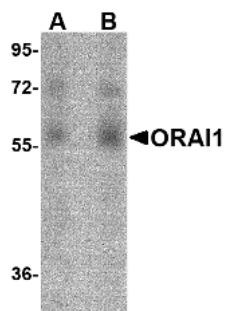
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

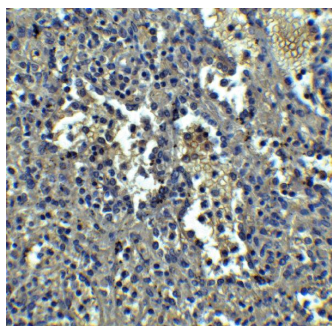
ORAI1 antibody can be used for detection of ORAI1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

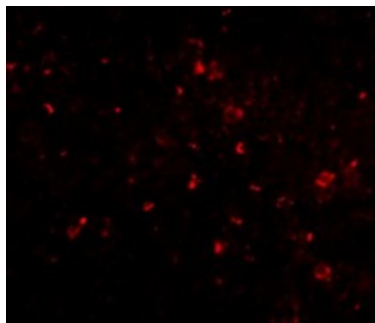
Anti-ORAI1 Monoclonal Antibody [3F6H5] (M00909) Images



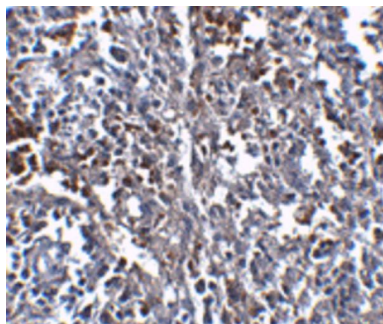
Western blot analysis of ORAI1 in human ovary tissue lysate with ORAI1 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of ORAI1 in human spleen tissue with ORAI1 antibody at 5 ug/mL.



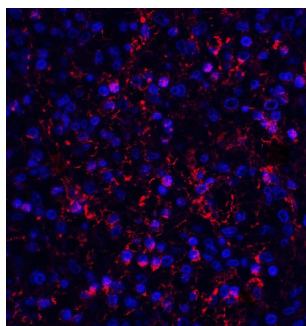
Immunofluorescence of ORAI1 in human spleen tissue with ORAI1 antibody at 20 ug/mL.



Immunohistochemistry of ORAI1 in human spleen tissue with ORAI1 antibody at 2.5 ug/mL.

Immunofluorescence of ORAI1 in human spleen tissue with ORAI1 antibody at 20 ug/mL.

Red: ORAI1 Antibody [3F6H5]
Blue: DAPI staining



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