

ORAI1 Monoclonal Antibody

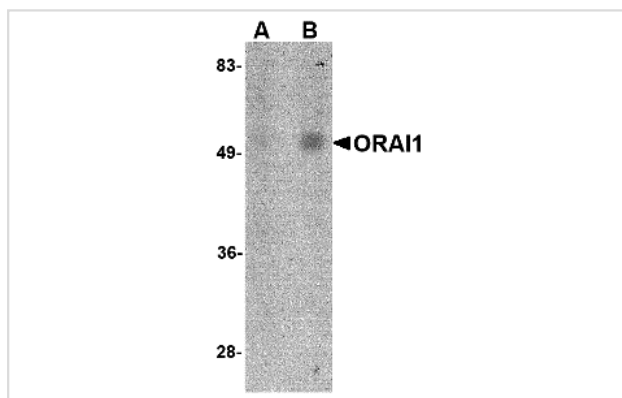
Catalog No: #26039

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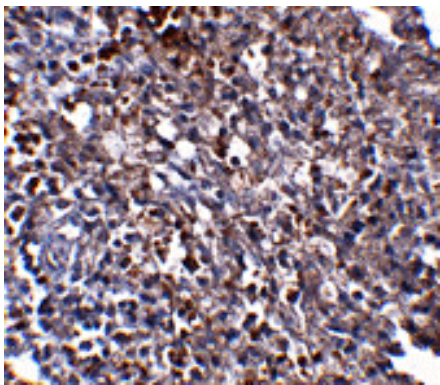
Description

Product Name	ORAI1 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	mAb (Clone 6D11A11)
Purification	Immunoaffinity chromatography purified IgG
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human ORAI1.
Target Name	ORAI1
Other Names	ORAI1 (6D11A11), Transmembrane protein 142A, TMEM142A, Calcium release-activated calcium channel protein 1
Accession No.	Swiss-Prot:Q96D31Gene ID:84876
Uniprot	Q96D31
GeneID	84876;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year.

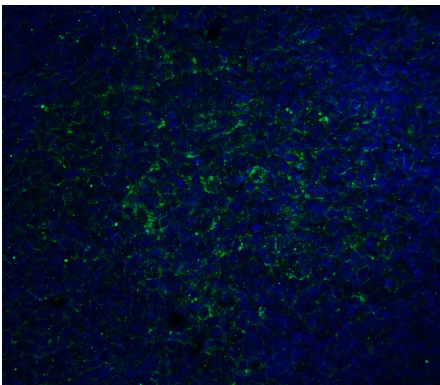
Images



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



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



Immunofluorescence of ORAI1 in rat spleen tissue with ORAI1 antibody at 5 µg/mL.

Background

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.

Note: This product is for in vitro research use only