

Mouse ORAI1 Monoclonal Antibody | anti-ORAI1 antibody

ORAI1 Antibody [6D11A11]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39202	Mouse	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

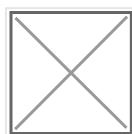
PRODUCT SYNONYMS

ORAI1; Monoclonal Antibody; ORAI1 Antibody [6D11A11]; ORAI1 Antibody [6D11A11] : IMD9; ORAT1; CRACM1; TMEM142A; ORAI calcium release-activated calcium modulator 1; anti-ORAI1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	6D11A11
Purity/Purification	ORAI1 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	301
Applicable Applications for anti-ORAI1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	Mouse monoclonal ORAI1 antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human ORAI1.
Buffer	ORAI1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ORAI1 monoclonal antibody can be stored at -20 degree C, stable for one year.

IMAGES



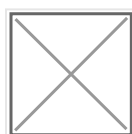
IHC (Immunohistochemistry)

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



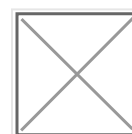
IF (Immunofluorescence)

Immunofluorescence of ORAI1 in Human Spleen tissue with ORAI1 antibody at 20 ug/mL.



IHC (Immunohistochemistry)

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



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-ORAI1 antibody	ORAI1 Monoclonal Antibody: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	97180269
NCBI GeneID	84876
UniProt Accession #	Q96D31; Q3MHV3; Q6DHX2; Q96BP7; Q96K71
Molecular Weight	25,337 Da
NCBI Official Full Name	Calcium release-activated calcium channel protein 1
NCBI Official Synonym Full Names	ORAI calcium release-activated calcium modulator 1
NCBI Official Symbol	ORAI1
NCBI Official Synonym Symbols	IMD9; TAM2; ORAT1; CRACM1; TMEM142A
NCBI Protein Information	calcium release-activated calcium channel protein 1; protein orai-1; transmembrane protein 142A; calcium release-activated calcium modulator 1
UniProt Protein Name	Calcium release-activated calcium channel protein 1
UniProt Gene Name	ORAI1
UniProt Synonym Gene Names	CRACM1; TMEM142A
UniProt Entry Name	CRCM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.