

Mouse ORAI1 Monoclonal Antibody | anti-ORAI1 antibody

ORAI1 Monoclonal Antibody

CATALOG # AAA300778	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

ORAI1; Monoclonal Antibody; ORAI1 Monoclonal Antibody; ORAI1 (6D11A11); Transmembrane protein 142A; TMEM142A; Calcium release-activated calcium channel protein 1; anti-ORAI1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	6D11A11
Purity/Purification	Immunoaffinity chromatography purified IgG
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Sequence Length	287
Applicable Applications for anti-ORAI1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human ORAI1.
Target Name	ORAI1
Preparation and Storage	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 ug/mL.


WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-ORAI1 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	75771974
NCBI GeneID	84876
Molecular Weight	25,337 Da
NCBI Official Full Name	ORAI1 protein, partial
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
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/orai1-antibody-clone-6d11a11-immunohistochemistry-western-blot-elisa/300778>