ORAI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ORAI1, Polyclonal Antibody
Full Product Name	ORAI1 Antibody
Product Gene Name	anti-ORAI1 antibody
Product Synonym Names	IMD9; ORAT1; CRACM1; TMEM142A
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total ORAI1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	25,337 Da
OMIM	phenotype 615883
3D Structure	ModBase 3D Structure for Q96D31
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human ORAI calcium release-activated calcium modulator 1
Product Categories/Family for anti-ORAI1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ORAI1 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ORAI1 antibody	IHC: 1:25-1:100 WB: 200-1000
Related Product Information for anti-ORAI1 antibody	The protein encoded by this gene is a membrane calcium channel subunit that is activated by the calcium sensor STIM1 when calcium stores are depleted. This type of channel is the primary way for calcium influx into T-cells. Defects in this gene are a cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 1 (IDTICED1)
Other Notes	Small volumes of anti-ORAI1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ORAI1 purchase	MBS8590474 is an antibody targeting ORAI1. Also known as ORAI1 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ORAI1. It may not necessarily be applicable to this product.

NCBI GI #	97180269

NCBI GeneID	84876
NCBI Accession #	Q96D31.2
UniProt Primary Accession #	Q96D31
UniProt Secondary Accession #	Q3MHV3; Q6DHX2; Q96BP7; Q96K71
UniProt Related Accession #	Q96D31
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
UniProt Protein Name	Calcium release-activated calcium channel protein 1
UniProt Synonym Protein Names	Protein orai-1; Transmembrane protein 142A
UniProt Gene Name	ORAI1
UniProt Synonym Gene Names	CRACM1; TMEM142A
UniProt Entry Name	CRCM1_HUMAN
NCBI Protein Information	calcium release-activated calcium channel protein 1; protein orai-1; transmembrane protein 142A; calcium release-activated calcium modulator 1
NCBI Summary for ORAI1	The protein encoded by this gene is a membrane calcium channel subunit that is activated by the calcium sensor STIM1 when calcium stores are depleted. This type of channel is the primary way for calcium influx into T-cells. Defects in this gene are a cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 1 (IDTICED1). [provided by RefSeq, Sep 2011]
UniProt Comments for ORAI1	ORAI1: Ca(2+) release-activated Ca(2+) (CRAC) channel subunit which mediates Ca(2+) influx following depletion of intracellular Ca(2+) stores and channel activation by the Ca(2+) sensor, STIM1. CRAC channels are the main pathway for Ca(2+) influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT. Interacts with STIM1 and STIM2. Interacts with EFCAB4B/CRACR2A; the interaction is direct and takes place in absence of Ca(2+). Forms a complex with EFCAB4B/CRACR2A and STIM1 at low concentration of Ca(2+), the complex dissociates at elevated Ca(2+) concentrations. Belongs to the Orai family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Channel, calcium Chromosomal Location of Human Ortholog: 12q24.31 Cellular Component: protein complex; membrane; integral to plasma membrane Molecular Function: calmodulin binding; identical protein binding; protein binding; store-operated calcium channel activity Biological Process: immune system process; regulation of calcium ion transport; positive regulation of calcium ion transport; blood coagulation Disease: Myopathy, Tubular Aggregate, 2; Immunodeficiency 9
Research Articles on ORAI1	**1.** KSR2 deficiency affects stromal interaction molecule 1 (STIM1)/ORAI1 puncta formation, which is correlated with cytoskeleton disorganization.
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