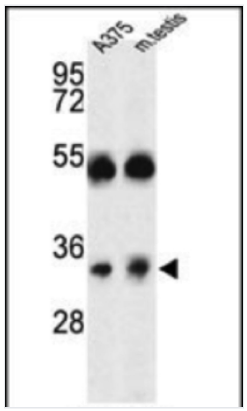
ORAI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ORAI1, Polyclonal Antibody
Full Product Name	ORAI1, ID (ORAI1, CRACM1, TMEM142A, Calcium release-activated calcium channel protein 1, Protein orai-1, Transmembrane protein 142A) (Azide free) (HRP)
Product Gene Name	anti-ORAI1 antibody
Product Synonym Names	ORAI1; CRACM1; TMEM142A; Calcium release-activated calcium channel protein 1; Protein orai-1; Transmembrane protein 142A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human ORAI1. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	25,337 Da
OMIM	phenotype 615883
3D Structure	ModBase 3D Structure for Q96D31
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 145-173 in the central region of human ORAI1, UniProt Accession #Q96D31; Q5M848; Q8BWG9; Q6TLE6. Species sequence homology: chicken, rat and zebrafish
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-ORAI1 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-ORAI1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-ORAI1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ORAI1 antibody	MBS6329585 is an antibody targeting ORAI1. Also known as ORAI1, ID (ORAI1, CRACM1, TMEM142A, Calcium release-activated calcium channel protein 1, Protein orai-1, Transmembrane protein 142A) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit. ORAI1 is a plasma membrane protein essential for store-operated calcium entry.
Product References and Citations for anti-ORAI1 antibody	1. Zhou, Y. Proc. Natl. Acad. Sci. U.S.A. 107 (11), 4896-4901 (2010). 2. Calloway, N. Biochemistry 49 (6), 1067-1071 (2010). 3. McCarl, C.A. J. Allergy Clin. Immunol. 124 (6), 1311-1318 (2009).

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.



Western Blot (WB) of anti-ORAI1 antibody
Western Blot analysis of MBS6009990 in A375 cell line and mouse testis tissue lysates (35ug/lane). ORAI1 (arrow) was detected using the purified Pab.

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 #	Q5M848; Q8BWG9; Q6TLE6; Q5ZL05
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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