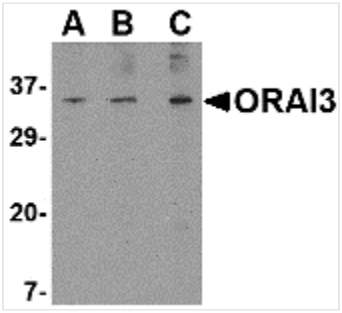
ORAI3 Antibody – Rabbit Polyclonal

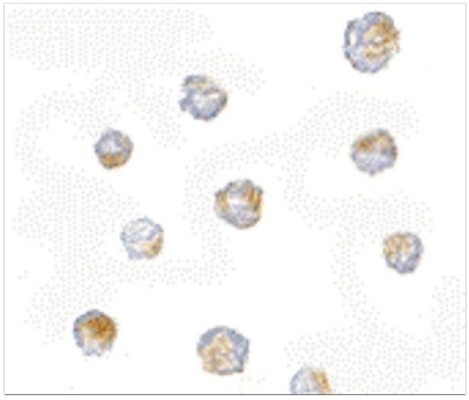
PRODUCT OVERVIEW

Product Name	ORAI3, Polyclonal Antibody
Full Product Name	ORAI3 Antibody
Product Gene Name	anti-ORAI3 antibody
Product Synonym Names	ORAI3; TMEM142C; TMEM142C; Protein orai-3; Transmembrane protein 142C; ORAI calcium release-activated calcium modulator 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	ORAI3 Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	This antibody is predicted to have no cross-reactivity to ORAI1 or ORAI2.
Preparation and Storage	ORAI3 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	ORAI3 peptide (MBS153210) is used for blocking the activity of ORAI3 antibody (MBS150836)
Molecular Weight	31,499 Da
OMIM	610930
3D Structure	ModBase 3D Structure for Q9BRQ5
Conjugate	Unconjugated
Immunogen	ORAI3 antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human ORAI3.
Buffer	ORAI3 Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-ORAI3 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC)
Application Notes for anti-ORAI3 antibody	ORAI3 antibody can be used for detection of ORAI3 by Western blot at 1 - 4 mug/mL. Antibody can also be used for immunocytochemistry starting at 10 mug/mL.
Related Product Information for anti-ORAI3 antibody	ORAI3 Antibody: Antigen stimulation of immune cells triggers Ca++ entry through Ca++ release-activated Ca++ (CRAC) channels. ORAI3 is one of two mammalian homologs to ORAI1, a recently identified four-transmembrane spanning protein that is an essential component of CRAC. All three homologs have been shown to function as Ca++ plasma membrane channels gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca++ sensor. However, ORAI3 channels failed to produce detectable Ca++ selective currents in cells co-transfected with ORAI3 and STIM1, indicating that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. Na+ currents through ORAI1, 2 and 3 channels were equally inhibited by extracellular Ca++, indicating that each have similar affinities for Ca++ within the selectivity filter.

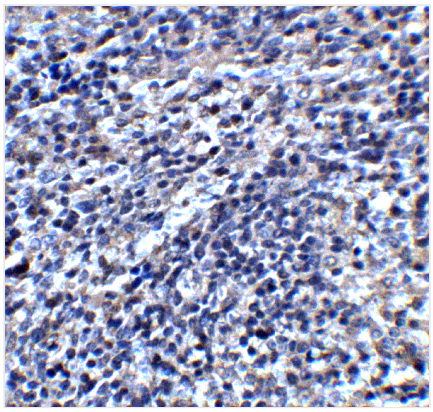
Other Notes	Small volumes of anti-ORAI3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ORAI3 purchase	MBS150836 is an antibody targeting ORAI3. Also known as ORAI3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ORAI3 antibody
Western blot analysis of ORAI3 in A20 cell lysate with ORAI3 antibody at (A) 1, (B) 2 and (C) 4 ?g/mL.



Immunocytochemistry (IHC) of anti-ORAI3 antibody
Immunocytochemistry of ORAI3 in A20 cells with ORAI3 antibody at 10 ?g/mL.



Immunohistochemistry (IHC) of anti-ORAI3 antibody
Immunohistochemistry of ORAI3 in mouse spleen tissue with ORAI3 antibody at 2 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ORAI3. It may not necessarily be applicable to this product.

NCBI GI #	74732916
NCBI GeneID	93129
NCBI Accession #	Q9BRQ5.2
UniProt Primary Accession #	Q9BRQ5
UniProt Secondary Accession #	Q96BI8
UniProt Related Accession #	Q9BRQ5
NCBI Official Full Name	Protein orai-3
NCBI Official Synonym Full Names	ORAI calcium release-activated calcium modulator 3
NCBI Official Symbol	ORAI3
NCBI Official Synonym Symbols	TMEM142C
UniProt Protein Name	Protein orai-3

UniProt Synonym Protein Names	Transmembrane protein 142C
Protein Family	Protein
UniProt Gene Name	ORAI3
UniProt Synonym Gene Names	TMEM142C
UniProt Entry Name	ORAI3_HUMAN
NCBI Protein Information	protein orai-3; transmembrane protein 142C
UniProt Comments for ORAI3	TMEM142C: Key regulator or component of store-operated Ca(2+) channel and transcription factor NFAT nuclear import. Belongs to the Orai family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: integral to membrane Molecular Function: protein binding
Research Articles on ORAI3	**1.** Suggest disrupted dynamic equilibrium of channel-forming ORAI proteins as an oncogenic mechanism in prostate cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/orai3/150836