

ORAI1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9371c**Specification**

ORAI1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q96D31
Other Accession	Q5M848 , Q8BWG9 , Q6TLE6 , Q5ZL05
Reactivity	Human, Mouse
Predicted	Chicken, Zebrafish, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	145-173

ORAI1 Antibody (Center) - Additional Information**Gene ID** 84876**Other Names**

Calcium release-activated calcium channel protein 1, Protein orai-1, Transmembrane protein 142A, ORAI1, CRACM1, TMEM142A

Target/Specificity

This ORAI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-173 amino acids of human ORAI1.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ORAI1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ORAI1 Antibody (Center) - Protein Information**Name** ORAI1**Synonyms** CRACM1, TMEM142A

Function 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 (PubMed:[16582901](#), PubMed:[16645049](#), PubMed:[16733527](#), PubMed:[16766533](#), PubMed:[16807233](#), PubMed:[19249086](#), PubMed:[23307288](#), PubMed:[24351972](#), PubMed:[24591628](#), PubMed:[28219928](#), PubMed:[20354224](#), PubMed:[26956484](#)). 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 (PubMed:[16582901](#)). Plays a prominent role in Ca(2+) influx at the basolateral membrane of mammary epithelial cells independently of the Ca(2+) content of endoplasmic reticulum or Golgi stores. May mediate transepithelial transport of large quantities of Ca(2+) for milk secretion.

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8BWG9}; Multi-pass membrane protein. Note=Isoform beta is more mobile in the plasma membrane (PubMed:23307288). Colocalizes with STIM1 at the cell membrane (PubMed:27185316).

Tissue Location

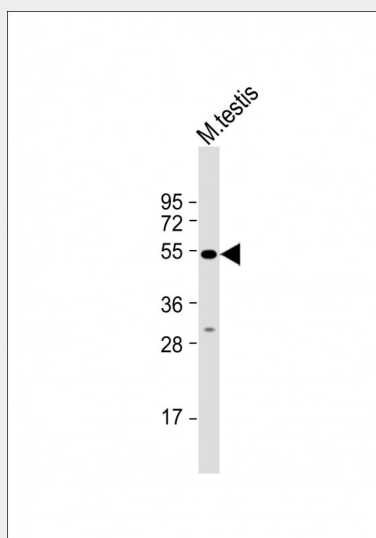
Expressed in naive CD4 and CD8 T cells (at protein level) (PubMed:26956484). Expressed at similar levels in naive and effector T helper cells (PubMed:20354224)

ORAI1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ORAI1 Antibody (Center) - Images



Anti-ORAI1 Antibody (Center) at 1:2000 dilution + mouse testis lysate Lysates/proteins at 20 µg

per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ORAI1 Antibody (Center) - Background

ORAI1 is a plasma membrane protein essential for store-operated calcium entry.

ORAI1 Antibody (Center) - References

Zhou,Y. Proc. Natl. Acad. Sci. U.S.A. 107 (11), 4896-4901 (2010)
Calloway,N. Biochemistry 49 (6), 1067-1071 (2010)
McCarl,C.A. J. Allergy Clin. Immunol. 124 (6), 1311-1318 (2009)