

## ORAI1 Antibody

Catalog No: #24555



Package Size: #24555 100ul

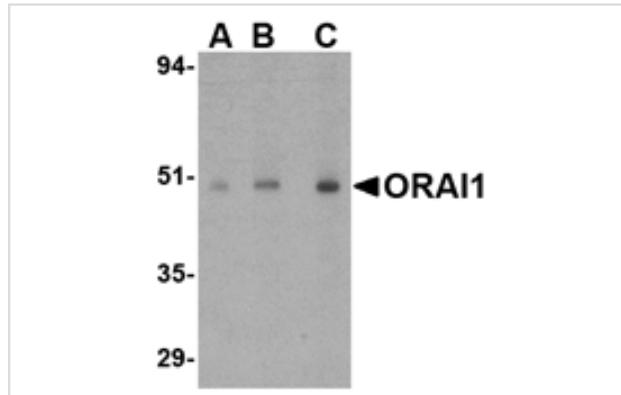
Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

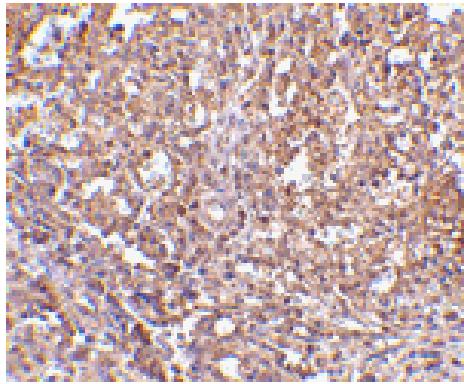
## Description

Product Name	ORAI1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse
Specificity	This antibody is predicted to have no cross-reactivity to ORAI2 or ORAI3.
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human ORAI1.
Conjugates	Unconjugated
Target Name	ORAI1
Other Names	Transmembrane protein 142A, TMEM142A, Calcium release-activated calcium channel protein 1
Accession No.	Q96D31
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

## Images



Western blot analysis of ORAI1 in human ovary tissue lysate with ORAI1 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml.



Immunohistochemistry of ORAI1 in human spleen tissue with ORAI1 antibody at 2.5 ug/mL.

## Background

Antigen stimulation of immune cells triggers Ca<sup>++</sup> entry through Ca<sup>++</sup> release-activated Ca<sup>++</sup> (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<sup>++</sup> entry. It has been suggested that ORAI1 functions as a highly selective Ca<sup>++</sup> plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca<sup>++</sup> sensor.

---

Note: This product is for in vitro research use only and is not intended for use in humans or animals.