

For Research Use Only

# ORAI1 Polyclonal antibody

Catalog Number: 14443-1-AP

1 Publications



## Basic Information

### Catalog Number:

14443-1-AP

### Size:

150ul, Concentration: 140 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_032790

### GeneID (NCBI):

84876

### UNIPROT ID:

Q96D31

### Full Name:

ORAI calcium release-activated calcium modulator 1

### Calculated MW:

35 kDa

### Observed MW:

44 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:200-1:1000

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

rat

### Positive Controls:

WB : human spleen tissue,

IHC : human colon cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Store-operated calcium channels (SOCs) play essential functions in various physiological processes. Orai1 (also named CRACM1) is a critical molecular component of SOCs. Orai1 protein is a 35-45 kDa plasma membrane protein with 4 transmembrane domains. Human patients with a severe combined immunodeficiency (SCID) syndrome possess point mutations in Orai1 gene. This antibody may be used to block the ion currents mediated by Orai1. ORAI1 contains 2 isoforms produced by alternative initiation (uniprot: Q96D31). Catalog#14443-1-AP only recognises alpha isoform.

## Notable Publications

Author	Pubmed ID	Journal	Application
Selina M Garcia	32702049	PLoS One	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

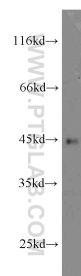
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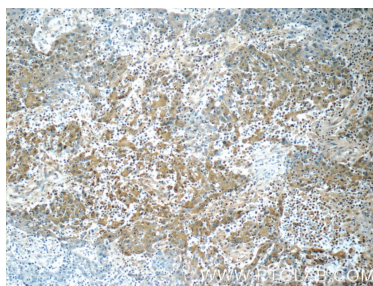
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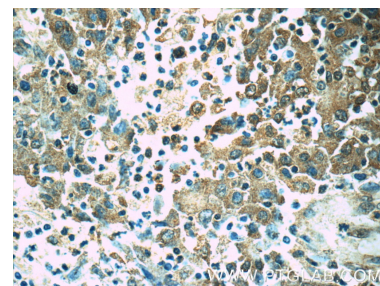
## Selected Validation Data



human spleen tissue were subjected to SDS PAGE followed by western blot with 14443-1-AP (Orai1-Alpha antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14443-1-AP (Orai1-Alpha antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14443-1-AP (Orai1-Alpha antibody at dilution of 1:50 (under 40x lens).