

For Research Use Only

# ORAI1 Polyclonal antibody

Catalog Number: 28411-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

28411-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29234

### GenBank Accession Number:

BC015369

### GeneID (NCBI):

84876

### UNIPROT ID:

Q96D31

### Full Name:

ORAI calcium release-activated calcium modulator 1

### Calculated MW:

301 aa, 33 kDa

### Observed MW:

45-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, bovine

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

### Positive Controls:

WB : MDA-MB-453s cells, MCF-7 cells

IHC : mouse testis tissue,

## Background Information

Store-operated calcium channels (SOCs) play essential functions in various physiological processes. ORAI1 is a complex glycosylated protein, it exists in several molecular weight forms: a theoretical molecular weight of 32.7 kDa of the unmodified protein and two major glycosylated proteins of ~43 kDa and ~50 kDa (PMID: 22318387). Human patients with a severe combined immunodeficiency (SCID) syndrome possess point mutations in Orai1 gene.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingjie Kang	34055617	Front Oncol	WB
Ming Li	34100951	J Anim Sci	IF
Cheng-Shun Zhang	34102196	Life Sci	WB,IF

## 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

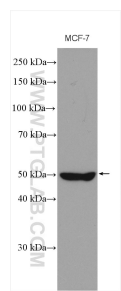
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

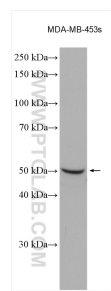
E: proteintech@ptglab.com  
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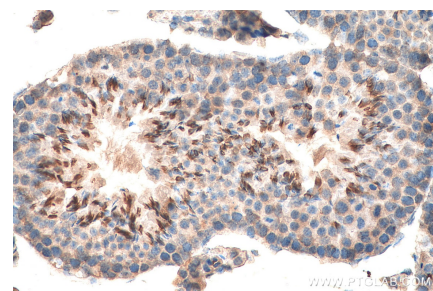
## Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 28411-1-AP (ORAI1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



MDA-MB-453s cells were subjected to SDS PAGE followed by western blot with 28411-1-AP (ORAI1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 28411-1-AP (ORAI1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).