

For Research Use Only

# ORAI1 Polyclonal antibody

Catalog Number: 14442-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 14442-1-AP	<b>GenBank Accession Number:</b> NM_032790	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84876	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>Full Name:</b> ORAI calcium release-activated calcium modulator 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 35 kDa	
	<b>Observed MW:</b> 30-35 kDa, 45-55 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : human peripheral blood platelets, mouse skeletal muscle tissue
<b>Cited Applications:</b> IP	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> mouse	

## 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 kDa plasma membrane protein with 4 transmembrane domains. 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. This antibody may be used to block the ion currents mediated by Orai1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Wei	3388544	BMJ Open Diabetes Res Care	IP

## Storage

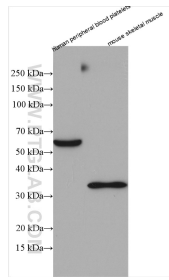
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 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  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14442-1-AP (ORAI1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.