

For Research Use Only

ORAI1 Polyclonal antibody

Catalog Number: 14443-1-AP 1 Publications



Basic Information

Catalog Number: 14443-1-AP	GenBank Accession Number: NM_032790	Purification Method: Antigen affinity purification
Size: 140 µg/ml	GeneID (NCBI): 84876	Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q96D31	
Isotype: IgG	Full Name: ORAI calcium release-activated calcium modulator 1	
	Calculated MW: 35 kDa	
	Observed MW: 44 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : human spleen tissue, IHC : human colon cancer tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: rat	

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

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

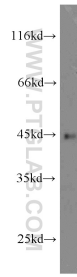
T: 4006900926

E: Proteintech-CN@ptglab.com

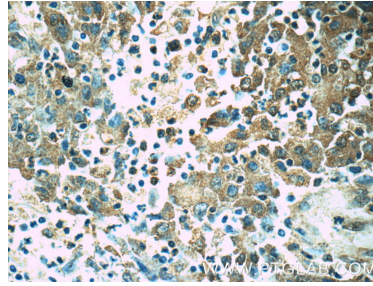
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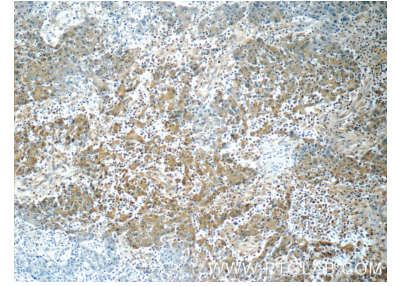
Selected Validation Data



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 40x lens).



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).