

For Research Use Only

ORAI1 Monoclonal antibody

Catalog Number: 66223-1-Ig 18 Publications



Basic Information

Catalog Number: 66223-1-Ig	GenBank Accession Number: BC015369	Purification Method: Protein A purification
Size: 150ul , Concentration: 1900 µg/ml by Nanodrop and 1020 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 84876	CloneNo.: 3C12F9
Source: Mouse	Full Name: ORAI calcium release-activated calcium modulator 1	Recommended Dilutions: WB 1:5000-1:30000 IF 1:400-1:1600
Isotype: IgG2a	Calculated MW: 301 aa, 33 kDa	
Immunogen Catalog Number: AG18050	Observed MW: 32 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : HL-60 cells, 4T1 cells, A375 cells, RAW 264.7 cells, pig spleen tissue, rat spleen tissue, pig thymus tissue, Raji cells, Ramos cells, Daudi cells, Jurkat cells, K-562 cells IF : Jurkat cells,
Cited Applications: IF, WB	
Species Specificity: human, mouse, rat, pig	
Cited Species: human, rat, mouse, monkey, bovine	

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 32-55 kDa plasma membrane protein with 4 transmembrane domains. Human patients with a severe combined immunodeficiency (SCID) syndrome possess point mutations in Orai1 gene.

Notable Publications

Author	Pubmed ID	Journal	Application
Bingbing Zhang	32981726	J Dairy Sci	WB
Yu Chen	34592660	Cell Calcium	WB
Chunming Gu	36109490	Oncogenesis	WB,IF

Storage

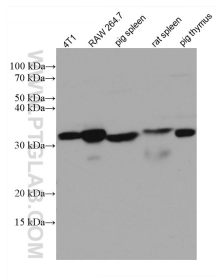
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

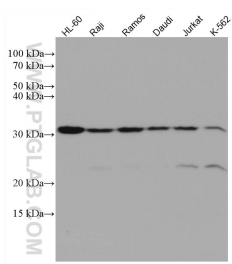
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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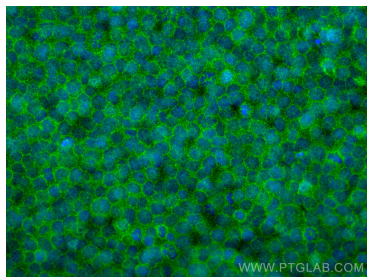
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66223-1-Ig (ORAI1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using ORAI1 antibody (66223-1-Ig, Clone: 3C12F9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).