

For Research Use Only

ORAI1 Monoclonal antibody

Catalog Number: 66223-1-Ig **23 Publications**



Basic Information

Catalog Number:

66223-1-Ig

Size:

1900 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG18050

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:

32 kDa

Purification Method:

Protein A purification

CloneNo.:

3C12F9

Recommended Dilutions:

WB 1:5000-1:30000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, monkey, bovine

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/ICC : Jurkat cells,

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

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

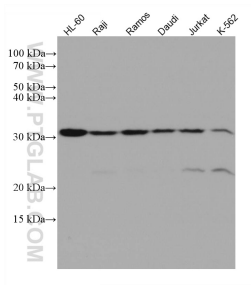
T: 4006900926

E: Proteintech-CN@ptglab.com

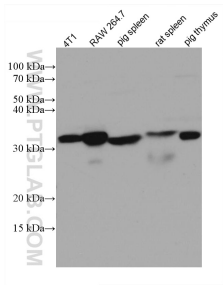
W: ptgcn.com

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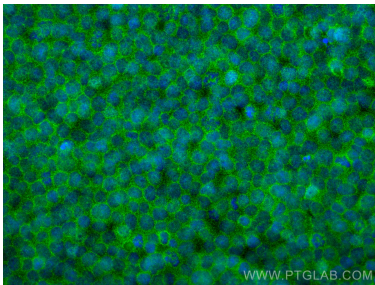
Selected Validation Data



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 Goat Anti-Mouse IgG(H+L).