For Research Use Only

ORAI1 Monoclonal antibody

Catalog Number:66223-1-lg 23 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66223-1-lg BC015369
Size: GeneID (NCBI):

150ul , Concentration: 1900 ug/ml by 84876 Nanodrop and 1020 ug/ml by Bradford UNIPROT ID: method using BSA as the standard; Q96D31

Source: Full Name:

Mouse ORAI calcium release-activated

Isotype: calcium modulator 1
IgG2a Calculated MW:
Immunogen Catalog Number: 301 aa, 33 kDa
AG18050 Observed MW:

Observed MW: 32 kDa

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

Purification Method: Protein A purification

CloneNo.: 3C12F9

Recommended Dilutions: WB 1:5000-1:30000

IF/ICC 1:400-1:1600

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 combinaed 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.

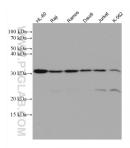
Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

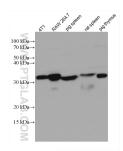
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

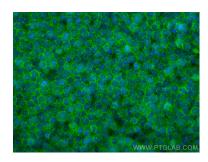
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66223-1-1g (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).