

For Research Use Only

CRACR2A Polyclonal antibody

Catalog Number: 15206-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

15206-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7358

GenBank Accession Number:

BC004524

GeneID (NCBI):

84766

UNIPROT ID:

Q9BSW2

Full Name:

EF-hand calcium binding domain 4B

Calculated MW:

46 kDa

Observed MW:

46 kDa, 80-90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Jurkat cells, HeLa cells, Daudi cells

IP: Jurkat cells,

IHC: human tonsillitis tissue,

IF/ICC: HEK-293 cells,

Background Information

CRACR2A (also called CRAC regulator 2A, EFCAB4B) is a cytoplasmic Ca²⁺ sensor predominantly expressed in lymphocytes. It has two isoforms: a long isoform of CRACR2A-a round 80-90 kDa and a short isoform of CRACR2A-c around 46 kDa. CRACR2A-c is involved in the regulation of Ca²⁺-NFAT signaling. CRACR2A-a exists in a GTP- and Golgi membrane-bound form in resting T cells, while it is present in subsynaptic vesicles that translocated from the Golgi region to the immunological synapse after ligation of TCRs. This antibody recognizes both of CRACR2A-c and CRACR2A-a.

Notable Publications

Author	Pubmed ID	Journal	Application
Katarina T Miteva	31092558	J Cell Biol	WB,IF
Jin Seok Woo	29987160	J Immunol	WB
Lucia Pedicini	33603063	Sci Rep	IP,IF,WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

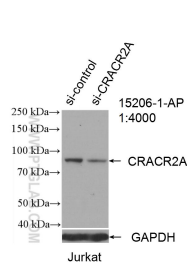
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

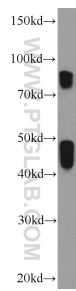
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

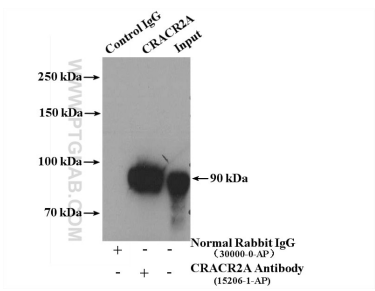
Selected Validation Data



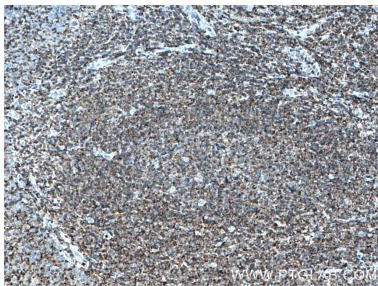
WB result of CRACR2A antibody (15206-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CRACR2A transfected Jurkat cells.



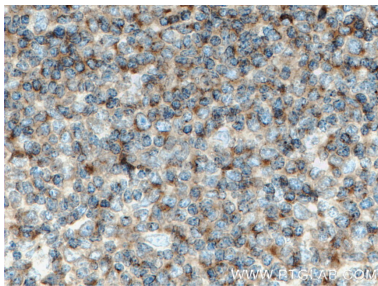
Jurkat cells were subjected to SDS PAGE followed by western blot with 15206-1-AP (CRACR2A) antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



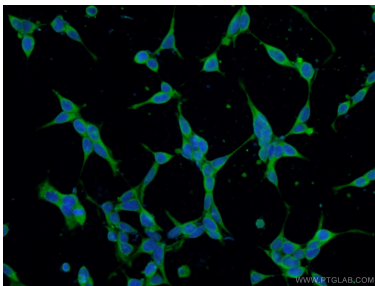
IP result of anti-CRACR2A (IP:15206-1-AP, 4ug; Detection:15206-1-AP 1:500) with Jurkat cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15206-1-AP (CRACR2A antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15206-1-AP (CRACR2A antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 15206-1-AP (CRACR2A antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated Goat Anti-Rabbit IgG(H+L).