

For Research Use Only

# RAB3GAP1 Polyclonal antibody

Catalog Number: 21663-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

21663-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16426

**GenBank Accession Number:**

BC146809

**GeneID (NCBI):**

22930

**UNIPROT ID:**

Q15042

**Full Name:**

RAB3 GTPase activating protein subunit 1 (catalytic)

**Calculated MW:**

981 aa, 111 kDa

**Observed MW:**

130 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

IHC 1:20-1:200

IF 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

CoIP, IF, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse, monkey

**Positive Controls:**

**WB:** HEK-293 cells, HL-60 cells, mouse brain tissue, rat brain tissue

**IHC:** human testis tissue,

**IF:** HepG2 cells,

**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

RAB3GAP1 (RAB3 GTPase-activating protein 1) is the catalytic subunit of the heterodimeric enzyme RAB3GAP (RAB3GTPase-activating protein), a key regulator of the RAB3 cycle, which controls calcium-mediated exocytosis of neurotransmitters and hormones. Mutations in RAB3GAP1 cause Warburg Micro syndrome (OMIM 600118) and Martsolf syndrome (OMIM 212720), phenotypically overlapping autosomal recessive conditions characterized by ocular and neurodevelopmental manifestations.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yorann Baron	24885147	BMC Biol	WB
Andreas Gerondopoulos	24891604	J Cell Biol	WB
Mark T Handley	26063829	Open Biol	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:

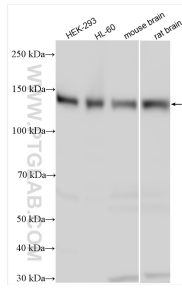
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

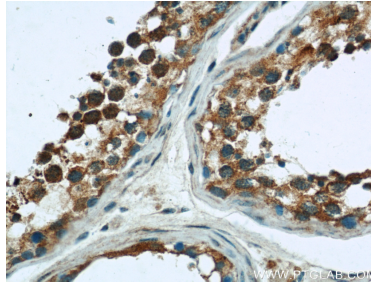
W: [ptgcn.com](http://ptgcn.com)

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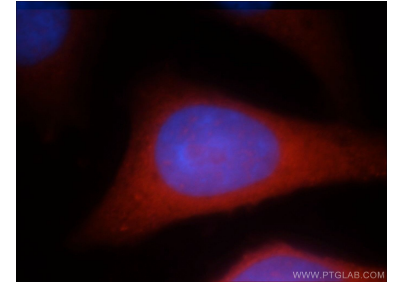
## Selected Validation Data



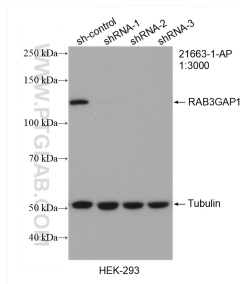
Various lysates were subjected to SDS PAGE followed by western blot with 21663-1-AP (RAB3GAP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 21663-1-AP (RAB3GAP1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using RAB3GAP1 antibody 21663-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



WB result of RAB3GAP1 antibody (21663-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RAB3GAP1 transfected HEK-293 cells.