

Product datasheet

Anti-RAB3GAP1 antibody ab236989

[4 Images](#)

Overview

Product name	Anti-RAB3GAP1 antibody
Description	Rabbit polyclonal to RAB3GAP1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human RAB3GAP1 aa 527-653. Database link: Q15042
Positive control	WB: HEK-293, Jurkat and HeLa whole cell lysates. IHC-P: Human kidney and testis tissues. ICC-IF: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.03% Proclin 300
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab236989 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500.
WB		1/500 - 1/5000. Predicted molecular weight: 111 kDa.
ICC/IF		1/50 - 1/200.

Target

Function

Probable catalytic subunit of a GTPase activating protein that has specificity for Rab3 subfamily (RAB3A, RAB3B, RAB3C and RAB3D). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones. Specifically converts active Rab3-GTP to the inactive form Rab3-GDP. Required for normal eye and brain development. May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters.

Tissue specificity

Ubiquitous.

Involvement in disease

Defects in RAB3GAP1 are the cause of Warburg micro syndrome type 1 (WARBM1) [MIM:600118]. A rare syndrome characterized by microcephaly, microphthalmia, microcornea, congenital cataracts, optic atrophy, cortical dysplasia, in particular corpus callosum hypoplasia, severe mental retardation, spastic diplegia, and hypogonadism.

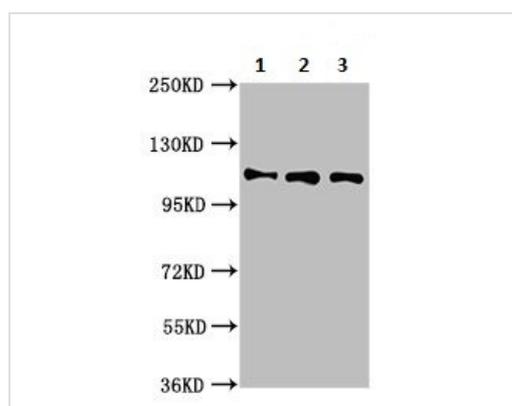
Sequence similarities

Belongs to the Rab3-GAP catalytic subunit family.

Cellular localization

Cytoplasm. In neurons, it is enriched in the synaptic soluble fraction.

Images



Western blot - Anti-RAB3GAP1 antibody (ab236989)

All lanes : Anti-RAB3GAP1 antibody (ab236989) at 1/500 dilution

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate

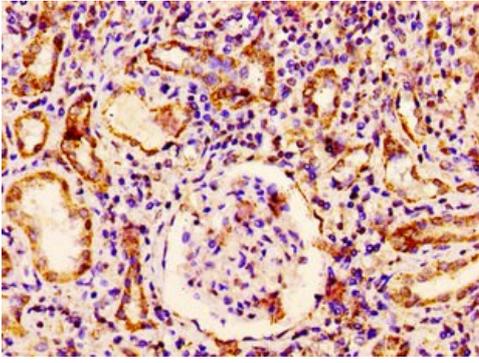
Lane 2 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

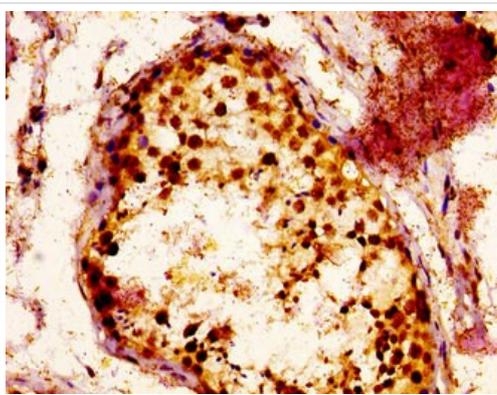
Predicted band size: 111 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAB3GAP1 antibody (ab236989)

Paraffin-embedded human kidney tissue stained for RAB3GAP1 using ab236989 at 1/300 dilution in immunohistochemical analysis.

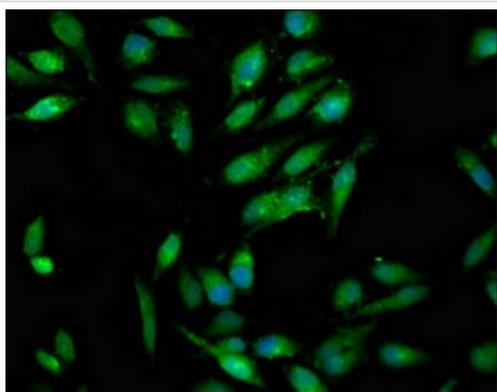
After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4° overnight. The primary is detected by a biotinylated secondary and visualized using an HRP conjugated SP system.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAB3GAP1 antibody (ab236989)

Paraffin-embedded human testis tissue stained for RAB3GAP1 using ab236989 at 1/300 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4° overnight. The primary is detected by a biotinylated secondary and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-RAB3GAP1 antibody (ab236989)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for RAB3GAP1 (green) using ab236989 at 1/100 dilution in ICC/IF, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (H+L). Counterstained with DAPI (blue).

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubate with primary antibody at 4°C overnight.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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