

For Research Use Only

RAB27A Polyclonal antibody

Catalog Number: 17817-1-AP

Featured Product

62 Publications



Basic Information

Catalog Number:

17817-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12136

GenBank Accession Number:

BC107680

GeneID (NCBI):

5873

UNIPROT ID:

P51159

Full Name:

RAB27A, member RAS oncogene family

Calculated MW:

221 aa, 25 kDa

Observed MW:

25-27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, rat, pig, canine, chicken

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 : HL-60 cells, human liver tissue, HeLa cells, L02 cells, K-562 cells, K562, Jurkat cells

IP : K-562 cells,

IHC : human malignant melanoma tissue, human stomach tissue

Background Information

Rab27A is a member of a large family of Ras-related small GTPases. The protein is membrane-bound and may be involved in protein transport and small GTPase mediated signal transduction. Recent studies suggest that Rab27A is associated with melanosomes in pigmented cells and regulates melanosome transport via its interaction with actin-based cellular motors such as myosin Va and myosin VIIa. RAB27A is also required for regulated secretion in cytotoxic T lymphocytes. Rab27A is implicated in several diseases, including Griscelli syndrome, choroideremia, and the Hermansky-Pudlak syndrome mouse model, gunmetal.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-----------------------------------|-------------|
| Jian Guo | 32989094 | J Immunol | WB |
| Xueqiang Peng | 32949647 | Biochim Biophys Acta Mol Cell Res | WB |
| Yuxuan Fu | 28910400 | PLoS Pathog | 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

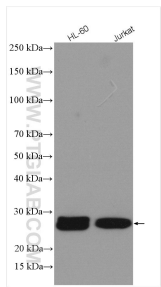
For technical support and original validation data for this product please contact:

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

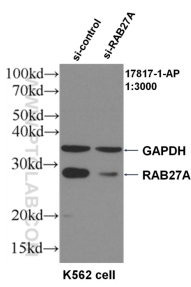
E: proteintech@ptglab.com
W: ptglab.com

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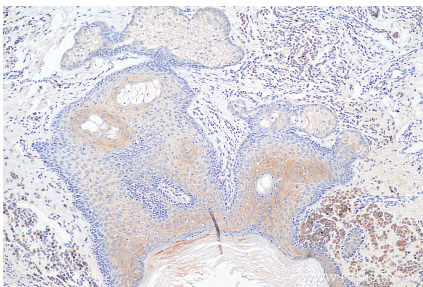
Selected Validation Data



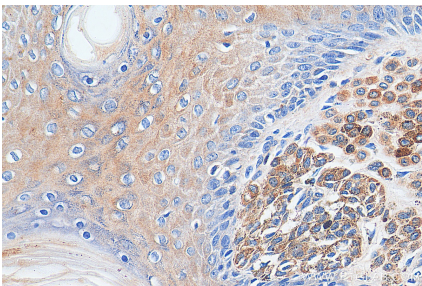
Various lysates were subjected to SDS PAGE followed by western blot with 17817-1-AP (RAB27A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



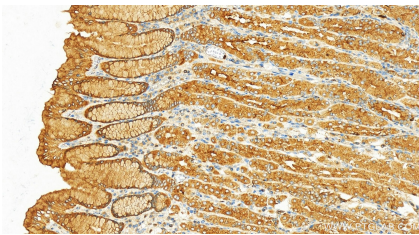
WB result of RAB27A antibody (17817-1-AP, 1:3000) with si-Control and si-RAB7B transfected K562 cells.



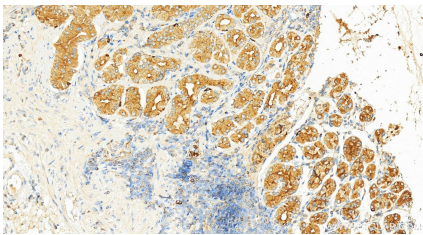
Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 17817-1-AP (RAB27A antibody) at dilution of 1:200 (under 10x lens).



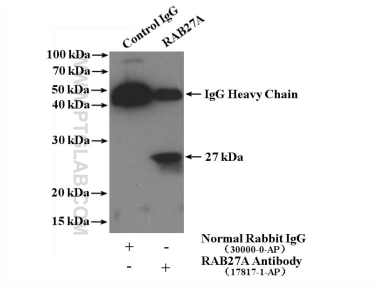
Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 17817-1-AP (RAB27A antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 17817-1-AP (RAB27A antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 17817-1-AP (RAB27A antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RAB27A (IP:17817-1-AP, 4ug; Detection:17817-1-AP 1:1000) with K-562 cells lysate 2760 ug.