For Research Use Only

RAB6B Polyclonal antibody

Catalog Number:10340-1-AP 3 Publications

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Basic Information

Catalog Number:
10340-1-AP

Size:
150ul , Concentration: 450 μg/ml by Nanodrop and 233 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0322

GenBank Accession Number:
BC002510

GeneID (NCBI):
51560

Full Name:
RAB6B, member RAS oncogene family

Calculated MW:
23 kDa

Observed MW:
24 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
IHC 1:20-1:200
IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB,ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
mouse, rat

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 : mouse brain tissue, C6 cells, rat brain tissue

IP : mouse brain tissue,

IHC : human gliomas tissue,

IF : C6 cells,

Background Information

The human RAB genes share structural and biochemical properties with the Ras gene superfamily. Accumulating data suggests an important role for RAB proteins either in endocytosis or in biosynthetic protein transport. The transport of newly synthesized proteins from endoplasmic reticulum to the Golgi complex and to secretory vesicles involves the movement of carrier vesicles, a process that appears to involve RAB protein function. Rab6A has been shown to be a regulator of membrane traffic from the Golgi apparatus towards the endoplasmic reticulum (ER). Rab6B is encoded by an independent gene which is located on chromosome 3 region q21-q23. In contrast to Rab6A whose expression is ubiquitous, Rab6B is expressed in a tissue and cell-type specific manner. Rab6B is predominantly expressed in brain and the neuroblastoma cells. In brain, Rab6B was found to be specifically expressed in microglia, pericytes and Purkinje cells. Endogenous Rab6B localises to the Golgi apparatus and to ERGIC-53-positive vesicles. Comparable studies between Rab6A and Rab6B revealed distinct biochemical and cellular properties. Rab6B displays lower GTP-binding activities and is distributed over Golgi and ER membranes, whereas Rab6A is more restricted to the Golgi apparatus. Since the GTP-bound form of Rab6B does interact with all known Rab6A effectors, including Rabkinesin-6, the results suggest a cell-type specific role for Rab6B in retrograde membrane traffic at the level of the Golgi complex.

Notable Publications

Author	Pubmed ID	Journal	Application
Elisa Ghelfi	29760588	Proteome Sci	WB
Liyuan Guo	34332492	J Neuroimmunol	IF
Sabine Bardin	35979738	EMBO Rep	WB

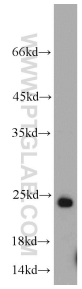
Storage

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

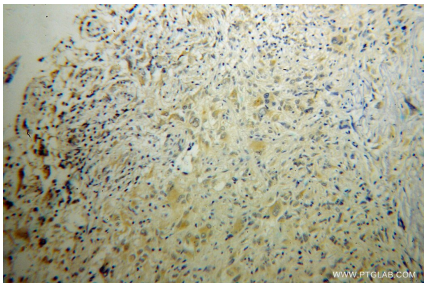
***** 20ul sizes contain 0.1% BSA**

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

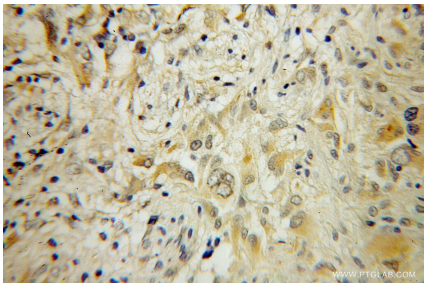
Selected Validation Data



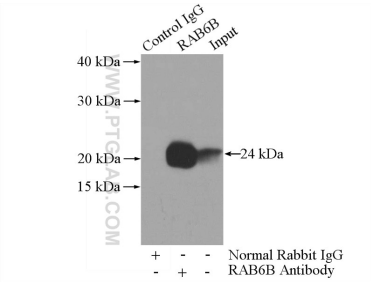
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10340-1-AP (RAB6B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



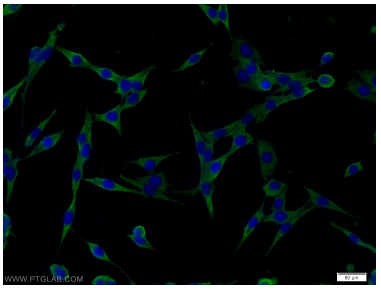
Immunohistochemical analysis of paraffin-embedded human gliomas using 10340-1-AP (RAB6B antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 10340-1-AP (RAB6B antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-RAB6B (IP:10340-1-AP, 3ug; Detection:10340-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of C6 cells using 10340-1-AP (RAB6B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).