

RAB6B Polyclonal antibody

Catalog Number: 10340-1-AP 3 Publications

Basic Information

Catalog Number: 10340-1-AP	GenBank Accession Number: BC002510	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 51560	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q9NRW1	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: RAB6B, member RAS oncogene family	IHC 1:20-1:200
Immunogen Catalog Number: AG0322	Calculated MW: 23 kDa	IF 1:10-1:100
	Observed MW: 24 kDa	

Applications

Tested Applications: IF/ICC, IHC, IP, WB, ELISA	Positive Controls: WB : mouse brain tissue, C6 cells, rat brain tissue
Cited Applications: WB, IF	IP : mouse brain tissue,
Species Specificity: human, mouse, rat	IHC : human gliomas tissue,
Cited Species: mouse, rat	IF : C6 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

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

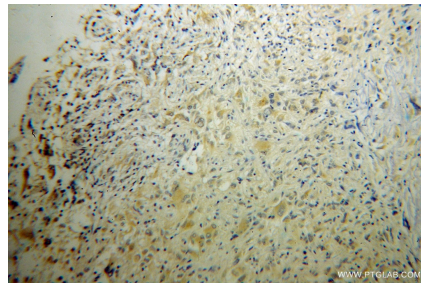
Storage

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

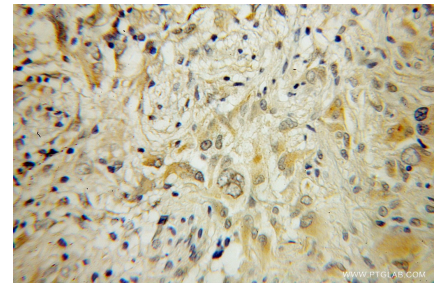
Selected Validation Data



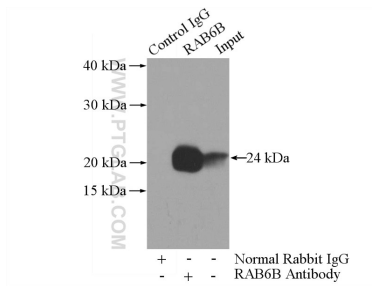
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10340-1-AP (RAB6B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



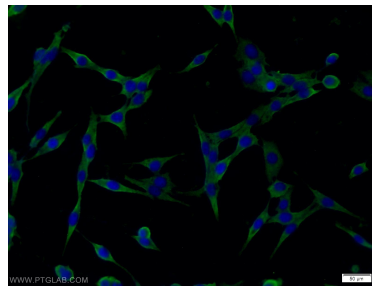
Immunohistochemical analysis of paraffin-embedded human gliomas using 10340-1-AP (RAB6B antibody) at dilution of 1:50 (under 10x lens).



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).