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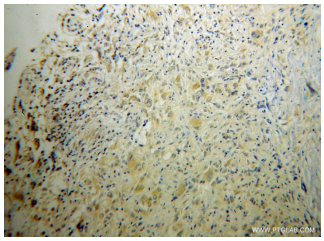
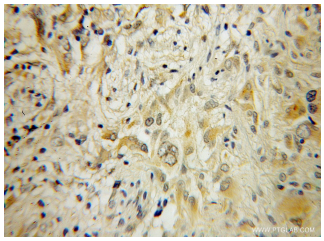
RAB6B Polyclonal Antibody

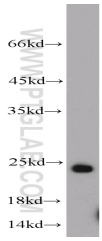
Catalog number: 10340-1-AP
Size: 20 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
RAB6B; RAB6B, Ras related protein Rab 6B



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



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



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10340-1-AP(RAB6B antibody) at dilution of 1:1000

Background

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.

Applications

Tested applications:	**ELISA, WB, IHC, IF, IP**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Caculated RAB6B MW:	**23 kDa**
Observed RAB6B MW:	**24 kDa**
Positive WB detected in	**Mouse brain tissue, C6 cells, rat brain tissue**
Positive IP detected in	**Mouse brain tissue**
Positive IHC detected in	**Human gliomas tissue**
Positive IF detected in	**C6 cells**
Recommended dilution:	**WB: 1:500-1:5000**
	IP: 1:500-1:5000
	IHC: 1:20-1:200
	IF: 1:10-1:100

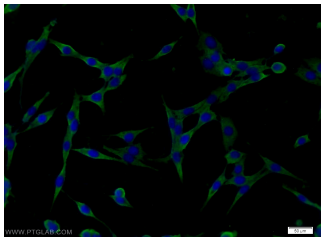
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

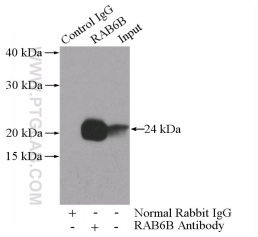
Immunogen:	**Ag0322**
GenBank accession number:	**BC002510**
Gene ID (NCBI):	**51560**
Full name:	**RAB6B, member RAS oncogene family**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**



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



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