

For Research Use Only

RAB8 Polyclonal antibody

Catalog Number: 11792-1-AP

Featured Product

8 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 11792-1-AP | GenBank Accession Number: BC020654 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 51762 | Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 |
| Source: Rabbit | Full Name: RAB8B, member RAS oncogene family | for WB IHC 1:50-1:500 IF 1:50-1:500 |
| Isotype: IgG | Calculated MW: 207 aa, 24 kDa | |
| Immunogen Catalog Number: AG2421 | Observed MW: 24 kDa | |

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

FC, IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

canine, human, mouse

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 : fetal human brain tissue, human brain tissue

IP : mouse brain tissue,

IHC : human lung cancer tissue,

IF : HepG2 cells,

Background Information

The Rab8 GTPase is a member of the Ras superfamily that functions in protein transport and membrane restructuring. RAB8 has two isoforms, RAB8A and RAB8B, that share 40% amino acid identity in the C-terminal variable region. RAB8 activity is regulated by specific guanine nucleotide exchange factors (GEFs), that mediate GTP loading, and GTPase activating proteins (GAPs) that convert them into the inactive GDP-bound form. RAB8 participates in recycling of the α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors to the dendritic spine surface as well as in the intracellular transport of the metabotropic glutamate receptor type 1 in neuronal cells. Rab8 is activated at the base of the cilium by its guanine nucleotide exchanger Rabin8. The antibody 11792-1-AP can detect both RAB8A and RAB8B. 55295-1-AP is specific to RAB8B and 55296-1-AP is specific to RAB8A.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|---------------|-------------|
| Luca Marchetti | 34524684 | Eur J Immunol | IF |
| S. Holbert | 34815429 | Sci Rep | FC |
| Biao Wang | 33987909 | EMBO Rep | WB,IF |

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

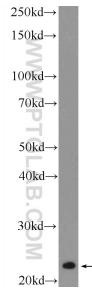
For technical support and original validation data for this product please contact:

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

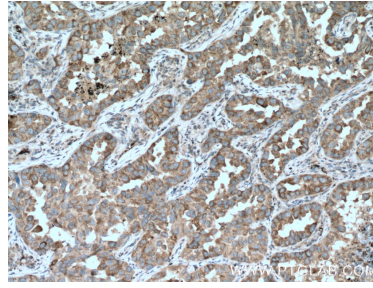
E: proteintech@ptglab.com
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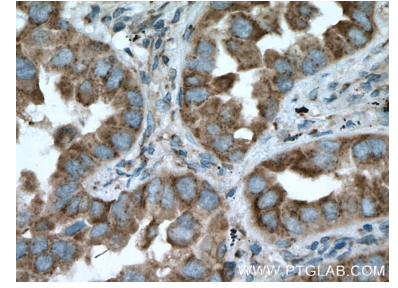
Selected Validation Data



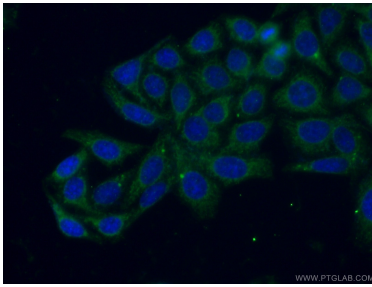
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 11792-1-AP (RAB8B Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



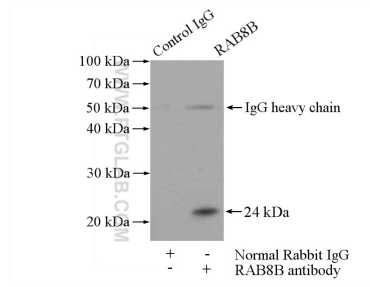
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11792-1-AP (RAB8B antibody) at dilution of 1:200 (under 10x lens) Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11792-1-AP (RAB8B antibody) at dilution of 1:200 (under 40x lens) Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 11792-1-AP (RAB8B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-RAB8B (IP:11792-1-AP, 4ug; Detection:11792-1-AP 1:1000) with mouse brain tissue lysate 4000ug.