

For Research Use Only

# GRAF Polyclonal antibody

Catalog Number: 17747-1-AP

3 Publications



## Basic Information

### Catalog Number:

17747-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12008

### GenBank Accession Number:

BC068555

### GeneID (NCBI):

23092

### UNIPROT ID:

Q9UNA1

### Full Name:

Rho GTPase activating protein 26

### Calculated MW:

759 aa, 86 kDa

### Observed MW:

92 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB**: HeLa cells, HepG2 cells, human brain tissue, mouse thymus tissue

**IP**: HepG2 cells,

**IHC**: mouse brain tissue, human heart tissue, human liver tissue, rat brain tissue

**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

GTPase Regulator Associated with Focal Adhesion Kinase (GRAF), also known as Rho GTPase activating protein 26 (ARHGAP26), is a GTPase-activating protein and inhibits the activity of Rho GTPases by promoting the hydrolytic ability of Rho GTPases. GRAF enhances the hydrolysis of GTPases and converts GTPases from an active form to an inactive form, thereby inhibiting signaling transduction. Deletion and mutation of GRAF can lead to promyelocytic leukemia, suggesting tumor suppressive activity of GRAF. GRAF was downregulated in glioblastoma and associated with cell proliferation and migration (PMID: 10908648, PMID: 17611651, PMID: 31004081). It has been reported that there are three splicing mutants of GRAF, namely GRAF 1a (92 kDa), GRAF 1b (86 kDa) and GRAF 1c (75-82 kDa), and GRAF 1b and GRAF 1c are the major GRAF 1 isoforms in adult brain, whereas GRAF 1a is abundant in neonates (PMID: 35624318, PMID: 30626696).

## Notable Publications

| Author       | Pubmed ID | Journal        | Application   |
|--------------|-----------|----------------|---------------|
| Shufang Zhou | 33069733  | Brain Res      | WB            |
| Sven Jarius  | 35624318  | J Neurol       | WB            |
| Guojie Xu    | 36849460  | Cell Death Dis | WB, IHC, CoIP |

## 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)

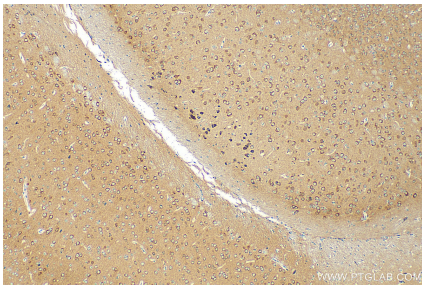
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

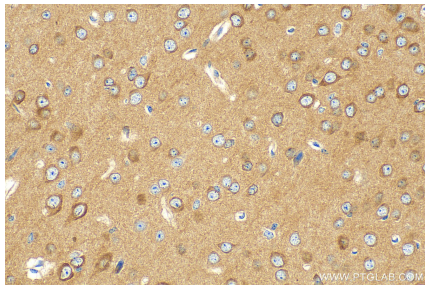
Selected Validation Data



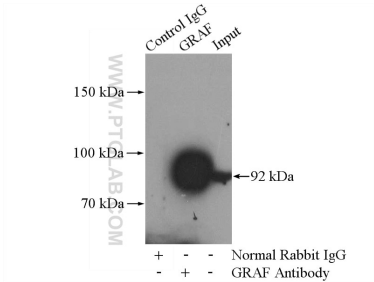
HeLa cells were subjected to SDS PAGE followed by western blot with 17747-1-AP (GRAF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17747-1-AP (GRAF antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17747-1-AP (GRAF antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GRAF (IP:17747-1-AP, 4ug; Detection:17747-1-AP 1:1000) with HepG2 cells lysate 3600ug.