

For Research Use Only

GRAF Polyclonal antibody

Catalog Number: 17747-1-AP **3 Publications**



Basic Information

Catalog Number: 17747-1-AP	GenBank Accession Number: BC068555	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23092	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
Source: Rabbit	UNIPROT ID: Q9UNA1	
Isotype: IgG	Full Name: Rho GTPase activating protein 26	
Immunogen Catalog Number: AG12008	Calculated MW: 759 aa, 86 kDa	
	Observed MW: 92 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	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
Cited Applications: WB, IHC, CoIP	
Species Specificity: human, mouse, rat	
Cited Species: 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

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 GRAF1 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

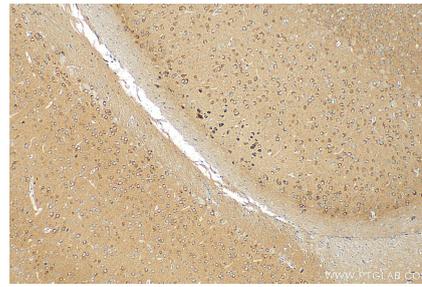
For technical support and original validation data for this product please contact:
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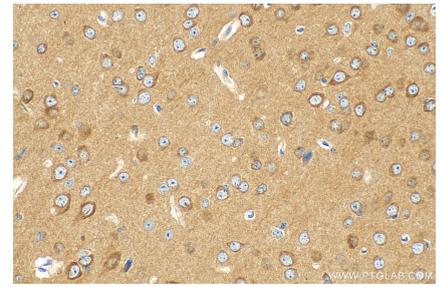
Selected Validation Data



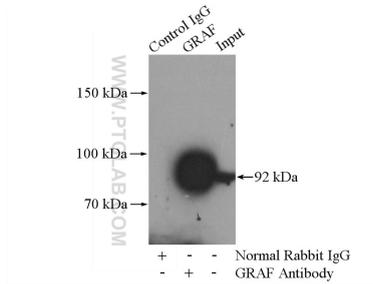
HeLa cells were subjected to SDS PAGE followed by western blot with 17747-1-AP (GRAF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.