

For Research Use Only

# GABPA Polyclonal antibody

Catalog Number: 21542-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

21542-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 207 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16191

### GenBank Accession Number:

BC035031

### GeneID (NCBI):

2551

### UNIPROT ID:

Q06546

### Full Name:

GA binding protein transcription factor, alpha subunit 60kDa

### Calculated MW:

454 aa, 51 kDa

### Observed MW:

56-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, ChIP

### 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**

### Positive Controls:

WB: HEK-293 cells, A431 cells, mouse liver tissue, MCF-7 cells, A549 cells, rat brain tissue, K-562 cells, NIH/3T3 cells, mouse brain tissue

IP: HeLa cells,

IHC: human cervical cancer tissue, human breast cancer tissue

IF/ICC: HEK-293 cells,

## Background Information

GA-binding protein alpha chain (GABP alpha subunit, GABPA, nuclear respiratory factor 2 subunit alpha, transcription factor E4TF1-60) is one of three GA-binding protein transcription factor subunits which functions as a DNA-binding subunit. GABPA is a member of Ets family, binds to the Yap promoter and activates YAP transcription(23684612). Since this subunit shares identity with a subunit encoding the nuclear respiratory factor 2 gene, it is likely involved in activation of cytochrome oxidase expression and nuclear control of mitochondrial function. This subunit also shares identity with a subunit constituting the transcription factor E4TF1, responsible for expression of the adenovirus E4 gene. Because of its chromosomal localization and ability to form heterodimers with other polypeptides, this gene may play a role in the Down Syndrome phenotype.

## Notable Publications

Author	Pubmed ID	Journal	Application
Narendra Kumar Verma	28905448	Stem Cells	WB
Shaofan Hu	36174386	Redox Biol	WB
Sheng Zhang	28549418	BMC Cancer	WB, IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

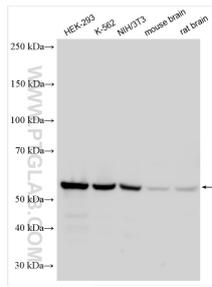
For technical support and original validation data for this product please contact:

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

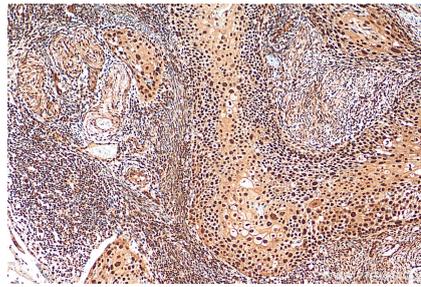
E: proteintech@ptglab.com  
W: ptglab.com

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

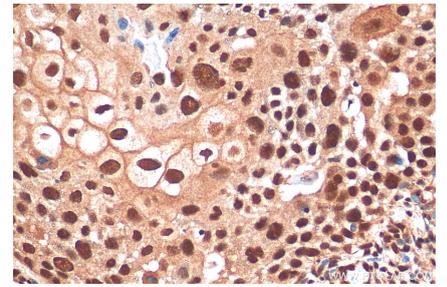
## Selected Validation Data



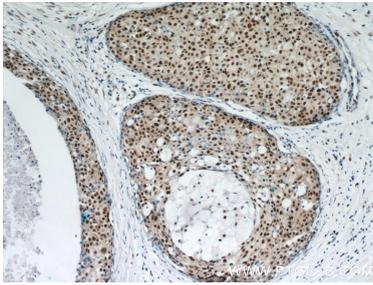
Various lysates were subjected to SDS PAGE followed by western blot with 21542-1-AP (GABPA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



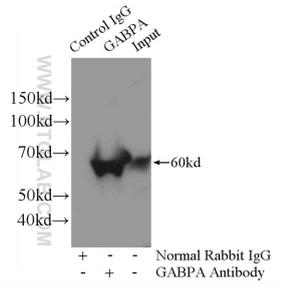
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 21542-1-AP (GABPA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



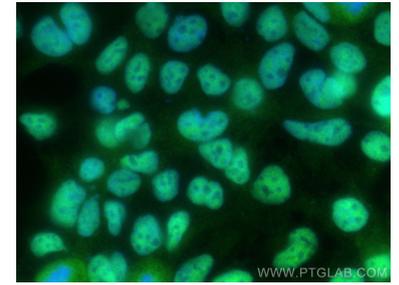
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 21542-1-AP (GABPA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 21542-1-AP (GABPA antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-GABPA (IP:21542-1-AP, 4ug; Detection:21542-1-AP 1:1000) with HeLa cells lysate 1200ug.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using GABPA antibody (21542-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).