

For Research Use Only

# FAM107A Polyclonal antibody

Catalog Number: 12176-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

12176-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2820

### GenBank Accession Number:

BC010561

### GeneID (NCBI):

11170

### UNIPROT ID:

O95990

### Full Name:

family with sequence similarity 107, member A

### Calculated MW:

144 aa, 17 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IHC 1:500-1:2000

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### 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:

IHC : human thyroid cancer tissue,

IF/ICC : MCF-7 cells,

## Background Information

FAM107A, also named as TU3A, encodes a 144 amino-acid protein, which contains a coiled-coil domain and a nuclear localization signal. FAM107A as a transcription factor regulates some gene transcription and signal transduction in cell. With the exception of peripheral blood cells, FAM107A is widely expressed in normal tissues, but shows significant loss of expression in renal cell carcinomas and frequent loss of expression in cervical, gastric, ovarian and non small cell lung cancers. Transfection of FAM107A mRNA into cancer cell line inhibits cell growth and proliferation, supporting the evidence that the gene functions as an important tumor suppressor.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jian Zhang	29632473	Front Mol Neurosci	WB
Bo Wan	30137324	Hum Mol Genet	WB
Shuai Ke	36010909	Cancers (Basel)	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

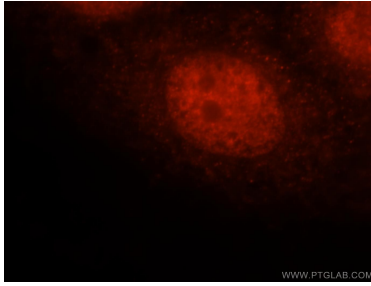
For technical support and original validation data for this product please contact:

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

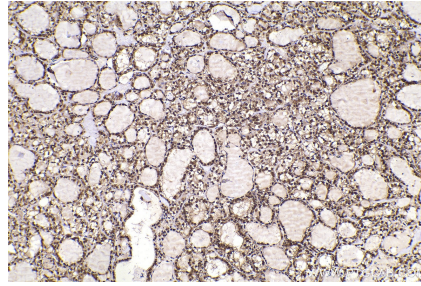
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

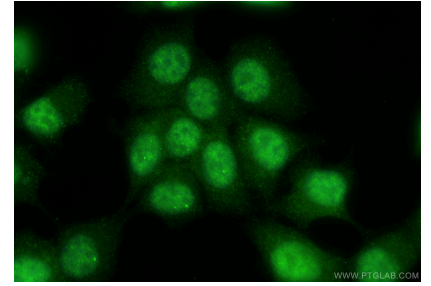
## Selected Validation Data



Immunofluorescent analysis of MCF-7 cells, using FAM107A antibody 12176-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 12176-1-AP (FAM107A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using FAM107A antibody (12176-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).