

For Research Use Only

# FAM82A1 Polyclonal antibody

Catalog Number: 33752-1-AP



## Basic Information

**Catalog Number:**

33752-1-AP

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG40522

**GenBank Accession Number:**

BC024243

**GeneID (NCBI):**

151393

**UNIPROT ID:**

Q96LZ7

**Full Name:**

family with sequence similarity 82, member A1

**Observed MW:**

45 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB: 1:1000-1:4000

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

**Species Specificity:**

human, mouse, rat

**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: HeLa cells, mouse liver tissue, U2OS cells, human testis tissue, rat liver

IP: U2OS cells,

IHC: human urothelial carcinoma tissue,

IF/ICC: U2OS cells, SH-SY5Y cells

## Background Information

FAM82A1 is a crucial cellular signaling regulatory protein that has recently gained attention for its role in tumorigenesis. Research indicates that it serves as an important regulatory subunit of protein phosphatase 2A (PP2A), participating in the precise regulation of cell cycle progression and apoptosis by influencing key signaling pathways such as JNK/c-Jun. In various cancers (e.g., glioblastoma, lung cancer), FAM82A1 often exhibits abnormally high expression, which is closely associated with accelerated cancer cell proliferation, inhibited apoptosis, and poor patient prognosis. Its cancer-promoting function is primarily achieved by sustaining cancer cell survival, making FAM82A1 not only a potential tumor biomarker but also a promising new target for anti-cancer therapy worthy of further exploration.

## 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

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

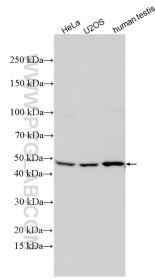
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

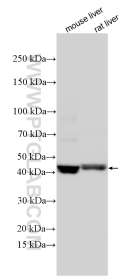
W: [ptgcn.com](http://ptgcn.com)

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

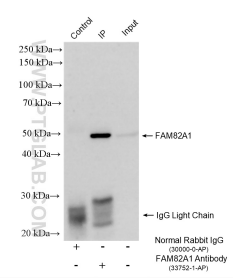
## Selected Validation Data



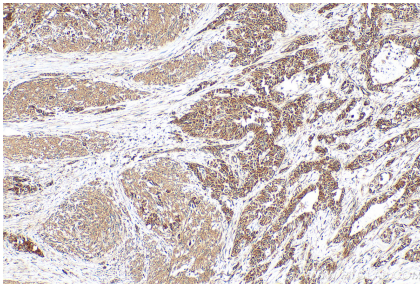
Various lysates were subjected to SDS PAGE followed by western blot with 33752-1-AP (FAM82A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



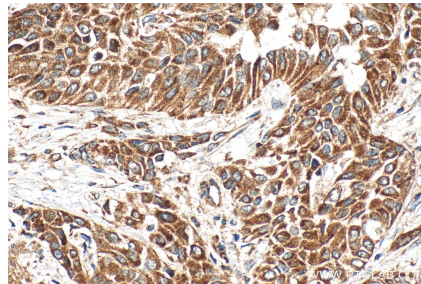
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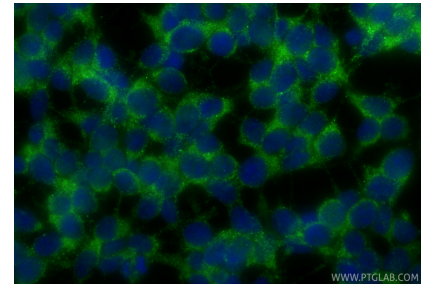
IP result of anti-FAM82A1 (IP:33752-1-AP, 4ug; Detection:33752-1-AP 1:2000) with U2OS cells lysate 760 ug.



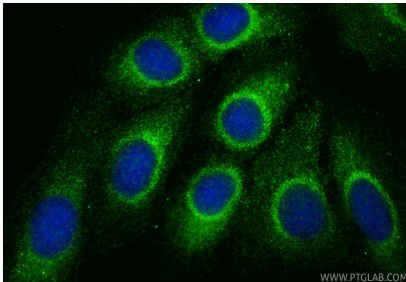
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 33752-1-AP (FAM82A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 33752-1-AP (FAM82A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using FAM82A1 antibody (33752-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using FAM82A1 antibody (33752-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).