

For Research Use Only

FAM82A1 Polyclonal antibody

Catalog Number: 33752-1-AP



Basic Information

Catalog Number: 33752-1-AP	GenBank Accession Number: BC024243	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 440 ug/ml by Nanodrop;	GeneID (NCBI): 151393	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
Source: Rabbit	UNIPROT ID: Q96LZ7	
Isotype: IgG	Full Name: family with sequence similarity 82, member A1	
Immunogen Catalog Number: AG40522	Observed MW: 45 kDa	

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

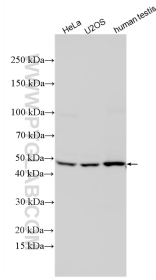
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

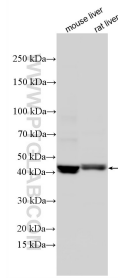
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

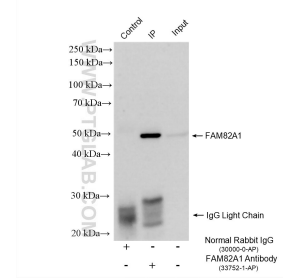
Selected Validation Data



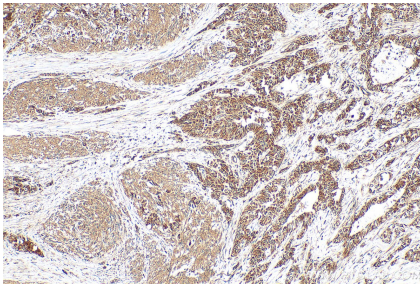
Various lysates were subjected to SDS PAGE followed by western blot with 33752-1-AP (FAM82A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



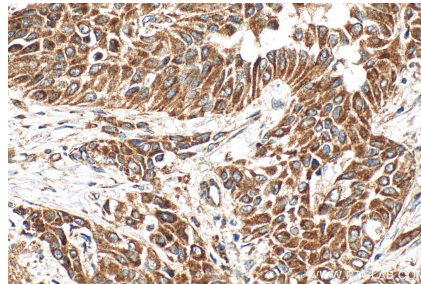
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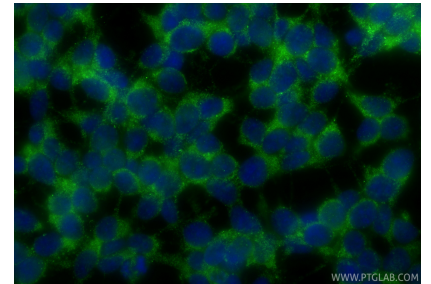
IP result of anti-FAM82A1 (IP:33752-1-AP, 4 μ g; Detection:33752-1-AP 1:2000) with U2OS cells lysate 760 μ g.



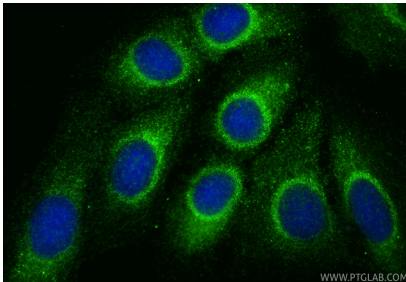
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 33752-1-AP (FAM82A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).