

For Research Use Only

ACTL6A Polyclonal antibody

Catalog Number:10341-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

10341-1-AP

Size:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0323

GenBank Accession Number:

BC001391

GeneID (NCBI):

86

UNIPROT ID:

O96019

Full Name:

actin-like 6A

Calculated MW:

47 kDa

Observed MW:

45-51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF

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 : HeLa cells, K-562 cells, MCF-7 cells

IP : HeLa cells,

IHC : human lung cancer tissue, human skin cancer tissue

Background Information

Actin-like 6A (ACTL6A, synonyms: ACTL6, BAF53A, MGC5382) is a family member of actin-related proteins (ARPs), which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. ACTL6A is a 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in *S. cerevisiae* and *Drosophila*; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix.

Notable Publications

Author	Pubmed ID	Journal	Application
Xing Wang	36159747	Stem Cells Int	WB,IHC,IF
Zhuo-Xian Meng	26586440	Cell Rep	WB
Yanying Wang	31334575	EMBO J	WB

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

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

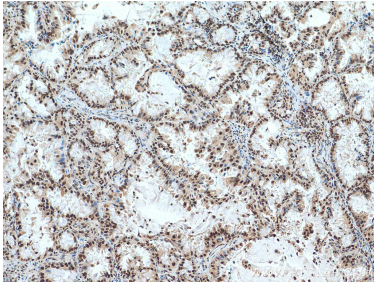
T: 4006900926

E: Proteintech-CN@ptglab.com

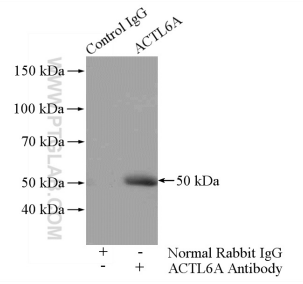
W: ptgcn.com

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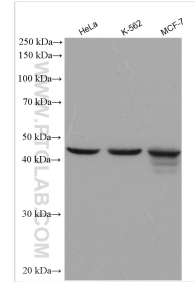
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10341-1-AP (ACTL6A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACTL6A (IP:10341-1-AP, 4ug; Detection:10341-1-AP 1:500) with HeLa cells lysate 1200ug.



Various lysates were subjected to SDS PAGE followed by western blot with 10341-1-AP (ACTL6A antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.