

For Research Use Only

# ARID3A Polyclonal antibody

Catalog Number: 14068-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

14068-1-AP

### Size:

700 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5124

### GenBank Accession Number:

BC060828

### GeneID (NCBI):

1820

### UNIPROT ID:

Q99856

### Full Name:

AT rich interactive domain 3A  
(BRIGHT-like)

### Calculated MW:

63 kDa

### Observed MW:

75 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:300-1:1200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB : K-562 cells, mouse placenta tissue

IP : K-562 cells,

IHC : human colon cancer tissue,

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Background Information

ARID3A is a nuclear matrix-associated transcription factor that stimulates immunoglobulin heavy chain (IgH) expression and Cyclin E1/E2F-dependent cell cycle progression. It activates IgH transcriptional initiation by binding to ATC-rich P sites within nuclear matrix attachment regions (MARs) flanking the IgH intronic enhancer (Emu) (PMID:17386101). It is the founder of the 13-member (in humans) ARID (AT-Rich Interaction Domain) family, which share a highly conserved DNA binding domain, but functions in diverse biological processes such as cell cycle regulated events, epigenetic post-translational modification, and chromatin remodeling (PMID:15927959,11959810,11283269). The expression molecular weight observed is consistent with what has been described in the literature (PMID: 15922553, 19436740).

## Notable Publications

| Author     | Pubmed ID | Journal        | Application |
|------------|-----------|----------------|-------------|
| Jing Tang  | 33165575  | Carcinogenesis | WB,IP       |
| Yafei Li   | 35257428  | Cell Biol Int  | WB,ChIP     |
| Daguo Zhou | 35219069  | Tissue Cell    | 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:

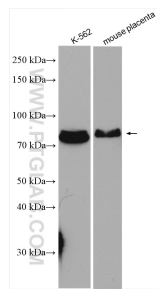
T: 4006900926

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

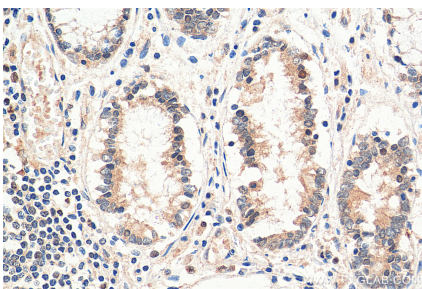
W: [ptgcn.com](http://ptgcn.com)

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

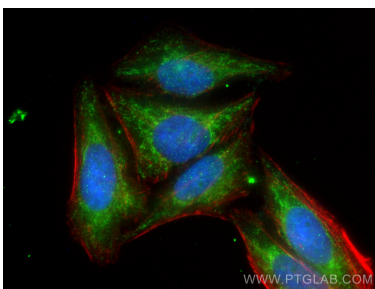
Selected Validation Data



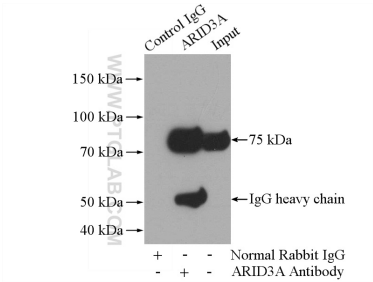
Various lysates were subjected to SDS PAGE followed by western blot with 14068-1-AP (ARID3A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14068-1-AP (ARID3A antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ARID3A antibody (14068-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).



IP result of anti-ARID3A (IP:14068-1-AP, 4ug; Detection:14068-1-AP 1:1000) with K-562 cells lysate 3200ug.