

For Research Use Only

# TFAP2A/AP-2 Polyclonal antibody

Catalog Number: 13019-3-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

13019-3-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4112

### GenBank Accession Number:

BC017754

### GeneID (NCBI):

7020

### UNIPROT ID:

P05549

### Full Name:

transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)

### Calculated MW:

431 aa, 47 kDa

### Observed MW:

47 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Cited Applications:

WB, IP, ChIP

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : HepG2 cells, Y79 cells, MCF-7 cells

IF/ICC : HepG2 cells,

## Background Information

The activator protein-2 (AP-2) family of transcription factors comprises five 52-kDa isoforms (AP-2α, AP-2β, AP-2γ, AP-2δ, and AP-2ε), which share a common structure: a proline/glutamine-rich transactivation domain in the N-terminal region and a helix-span-helix domain in the C-terminal region, which mediates dimerization and site-specific DNA binding. Depending on the cellular context, the AP-2 transcription factors are individually associated either with cell differentiation and development or with cancer progression/regression (PMID: 21966377). TFAP2A (AP-2-α) is the only AP-2 protein required for early morphogenesis of the lens vesicle. Together with the CITED2 coactivator, stimulates the PITX2 P1 promoter transcription activation (PMID: 11694877).

## Notable Publications

| Author       | Pubmed ID | Journal            | Application |
|--------------|-----------|--------------------|-------------|
| Ming-Xu Qiao | 27499261  | Oncol Rep          |             |
| Zhan-Ping Lu | 26073327  | Acta Pharmacol Sin | WB, ChIP    |
| Yanlu Xiong  | 33824285  | Cell Death Dis     | ChIP        |

## 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

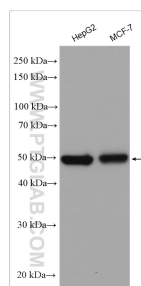
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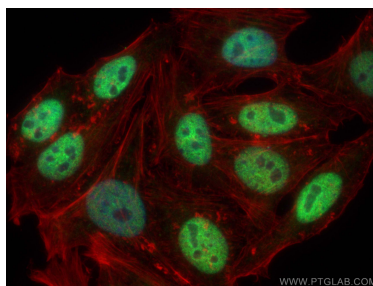
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13019-3-AP (TFAP2A/AP-2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAP2A/AP-2 antibody (13019-3-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).