

For Research Use Only

# TFAP2A,AP-2 Monoclonal antibody

Catalog Number: 67076-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 67076-1-Ig	<b>GenBank Accession Number:</b> BC017754	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2100 µg/ml by Nanodrop and 900 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7020	<b>CloneNo.:</b> 1B12F11
<b>Source:</b> Mouse	<b>Full Name:</b> transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 431 aa, 47 kDa	
<b>Immunogen Catalog Number:</b> AG4112	<b>Observed MW:</b> 47 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IHC

### Species Specificity:

Human, mouse, rat

### Cited Species:

human

**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 : L02 cells, HeLa cells, HSC-T6 cells, MCF-7 cells, HepG2 cells

IHC : human breast cancer tissue,

## Background Information

The activator protein-2 (AP-2) family of transcription factors comprises five 52-kDa isoforms (AP-2 $\alpha$ , AP-2 $\beta$ , AP-2 $\gamma$ , AP-2 $\delta$ , and AP-2 $\epsilon$ ), 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-alpha) 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
Junyuan Yang	37083077	Oncol Rep	IHC
Feng Zhang	36911415	Front Genet	IHC

## Storage

### Storage:

Store at -20°C.

### 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**

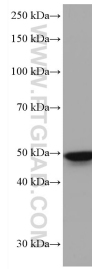
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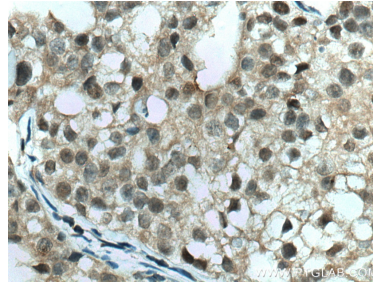
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## Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 67076-1-Ig (TFAP2A, AP-2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67076-1-Ig (TFAP2A, AP-2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).