

For Research Use Only

TFAP2A/AP-2 Monoclonal antibody

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



Basic Information

Catalog Number: 67076-1-Ig	GenBank Accession Number: BC017754	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 7020	CloneNo.: 1B12F11
Source: Mouse	UNIPROT ID: P05549	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000
Isotype: IgG1	Full Name: transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	
Immunogen Catalog Number: AG4112	Calculated MW: 431 aa, 47 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications: WB, IHC, ELISA, FC (Intra)	Positive Controls: WB : L02 cells, HeLa cells, HSC-T6 cells, MCF-7 cells, HepG2 cells IHC : human breast cancer tissue,
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	

Background Information

The activator protein-2 (AP-2) family of transcription factors comprises five 52-kDa isoforms (AP-2 α , AP-2 β , AP-2 γ , AP-2 δ , and AP-2 ϵ), 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

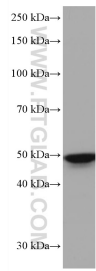
Storage

Storage:
Store at -20°C. 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

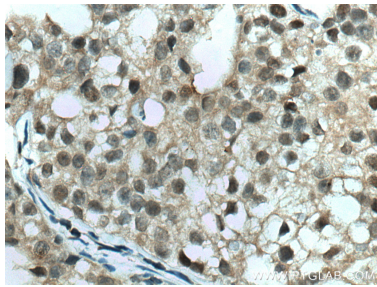
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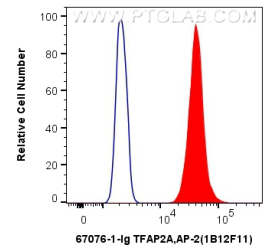
Selected Validation Data



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).



1X10⁶ A431 cells were intracellularly stained with 0.4 ug Anti-Human TFAP2A/AP-2 (67076-1-Ig, Clone:1B12F11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).