For Research Use Only

TFAP2A,AP-2 Polyclonal antibody

Catalog Number:13019-3-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
13019-3-AP

Size:
150ul , Concentration: 450 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4112

GenBank Accession Number:
BC017754

GeneID (NCBI):
7020

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 1:50-1:500

Applications

Tested Applications:
IF, WB, ELISA

Cited Applications:
ChIP, WB

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

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

IF : 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-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
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

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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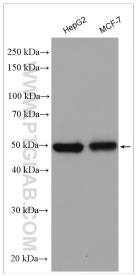
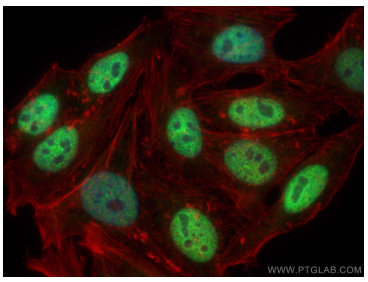
Selected Validation Data



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).