

For Research Use Only

TFAP2A/AP-2 Polyclonal antibody

Catalog Number: 13019-3-AP

Featured Product

14 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

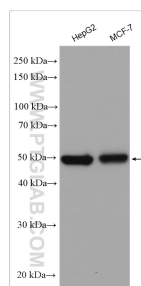
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

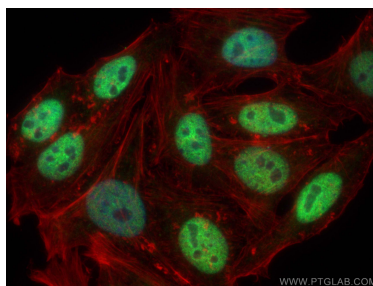
E: proteintech@ptglab.com
W: ptglab.com

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 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).