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TFAP2A

Purified Mouse Monoclonal Antibody
Catalog # AO2498a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P05549
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2H9B5
Isotype	Mouse IgG1
Calculated MW	48062
Immunogen	Purified recombinant fragment of human TFAP2A (AA: 105-211) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	7020
Other Names	AP-2; BOFS; AP2TF; TFAP2; AP-2alpha
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~ 1/200 - 1/1000 E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TFAP2A is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TFAP2A
Synonyms	AP2TF, TFAP2
Function	Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They can also suppress a number of genes including MCAM/MUC18 and C/EBP alpha. Is involved in the negative regulation of Wnt canonical signaling, and is a

transcriptional repressor of MYC (PubMed:33000225). 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. Associates with chromatin to the PITX2 P1 promoter region.

Cellular Location Nucleus

References

1.Int J Clin Exp Pathol. 2014 Nov 26;7(12):8666-74.2.Hum Pathol. 2012 Nov;43(11):1866-74.

Images

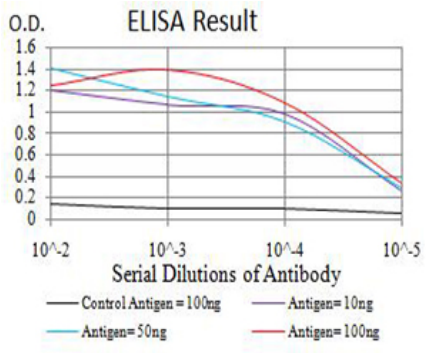


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

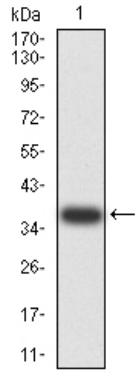


Figure 2:Western blot analysis using TFAP2A mAb against human TFAP2A (AA: 105-211) recombinant protein. (Expected MW is 37.5 kDa)

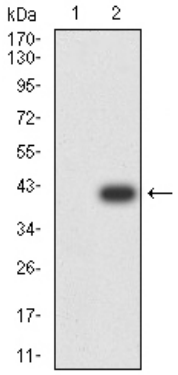
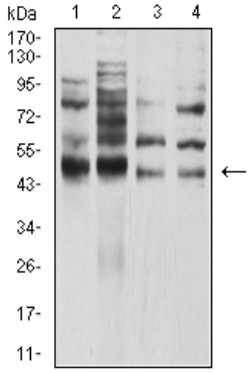


Figure 3:Western blot analysis using TFAP2A mAb against HEK293 (1) and TFAP2A (AA: 105-211)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Western blot analysis using TFAP2A mouse mAb against Hela (1), PANC-1 (2), HEK293 (3), and MCF-7 (4) cell lysate.



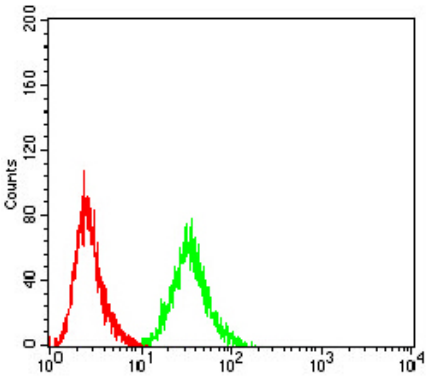


Figure 7:Flow cytometric analysis of Hela cells using TFAP2A mouse mAb (green) and negative control (red).

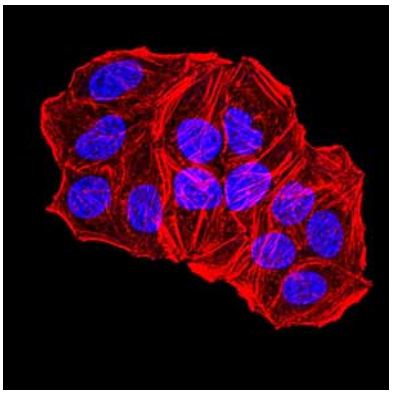


Figure 5:Immunofluorescence analysis of Hela cells using TFAP2A mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

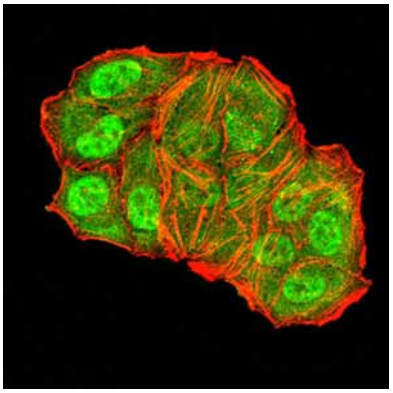


Figure 6:Immunofluorescence analysis of Hela cells using TFAP2A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.