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TFAP2C

Purified Mouse Monoclonal Antibody
Catalog # AO2522a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q92754
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3A11A5
Isotype	Mouse IgG1
Calculated MW	49177
Immunogen	Purified recombinant fragment of human TFAP2C (AA: 341-450) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	7022
Other Names	ERF1; TFAP2G; hAP-2g; AP2-GAMMA
Dilution	WB~~ 1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A 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	TFAP2C is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TFAP2C
Function	Sequence-specific DNA-binding transcription factor that interacts with cellular enhancer elements to regulate transcription of selected genes, and which plays a key role in early embryonic development (PubMed:11694877, PubMed:24413532). AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions (PubMed:11694877, PubMed:24413532). TFAP2C plays a key role in early embryonic development by regulating both inner cell mass (ICM) and trophectoderm differentiation (By similarity). At the 8-cell stage, during morula development, controls expression of cell-polarity

genes (By similarity). Upon trophoblast commitment, binds to late trophectoderm genes in blastocysts together with CDX2, and later to extra-embryonic ectoderm genes together with SOX2 (By similarity). Binds to both closed and open chromatin with other transcription factors (By similarity). Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer (PubMed:24413532).

Cellular Location Nucleus.

References

1.Breast Cancer Res Treat. 2015 Aug;152(3):519-31.2.Ann Surg Oncol. 2013 Jul;20(7):2204-12.

Images

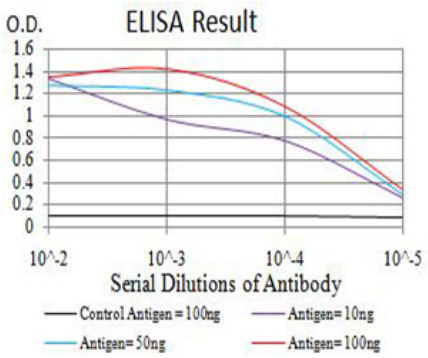


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

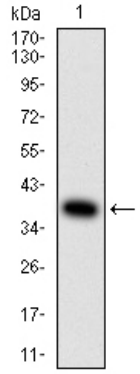


Figure 2:Western blot analysis using TFAP2C mAb against human TFAP2C (AA: 341-450) recombinant protein. (Expected MW is 38.2 kDa)

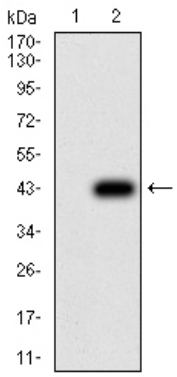
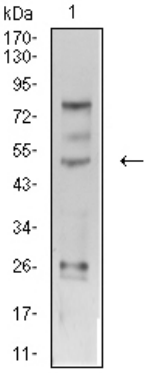


Figure 3:Western blot analysis using TFAP2C mAb against HEK293 (1) and TFAP2C (AA: 341-450)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Western blot analysis using TFAP2C mouse mAb against SK-Br-3 (1) cell lysate.



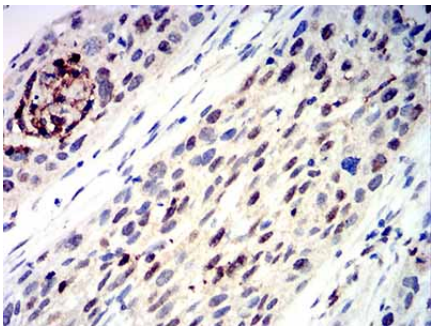


Figure 5:Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using TFAP2C mouse mAb with DAB staining.

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