

TFAP2C
Purified Mouse Monoclonal Antibody
Catalog # AO2522a**Specification**

TFAP2C - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q92754
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	49.2kDa KDa

Immunogen

Purified recombinant fragment of human TFAP2C (AA: 341-450) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

TFAP2C - 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.

TFAP2C - 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:

target="_blank">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 trophoblast 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 trophoblast 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.

TFAP2C - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TFAP2C - Images

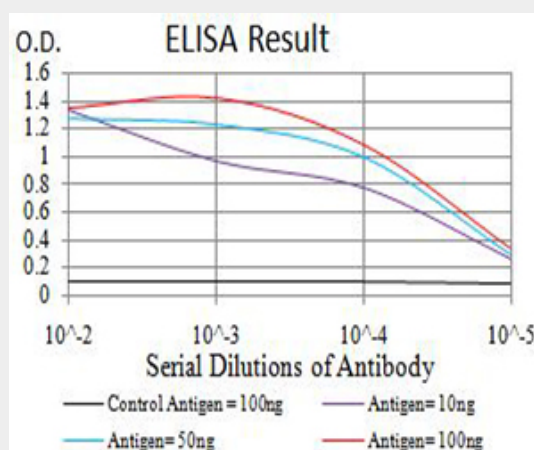


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

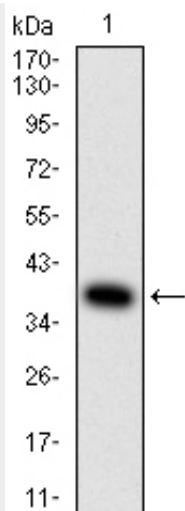


Figure 2: Western blot analysis using TFAP2C mAb against human TFAP2C (AA: 341-450) recombinant protein. (Expected MW is 38.2 kDa)

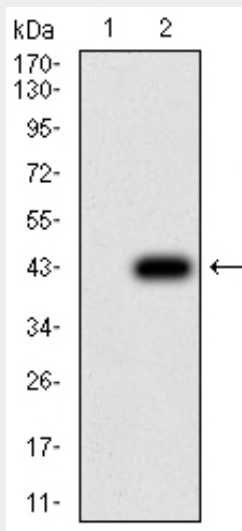


Figure 3: Western blot analysis using TFAP2C mAb against HEK293 (1) and TFAP2C (AA: 341-450)-hlgGfC transfected HEK293 (2) cell lysate.

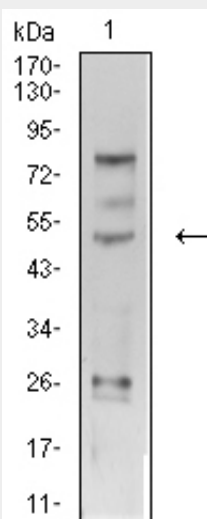


Figure 4:Western blot analysis using TFAP2C mouse mAb against SK-Br-3 (1) cell lysate.

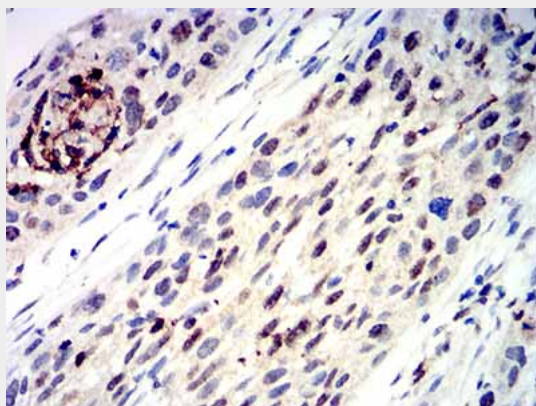


Figure 5:Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using TFAP2C mouse mAb with DAB staining.

TFAP2C - References

- 1.Breast Cancer Res Treat. 2015 Aug;152(3):519-31.
- 2.Ann Surg Oncol. 2013 Jul;20(7):2204-12.