

**TFAP2A**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2498a**

**Specification**

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**TFAP2A - Product Information**

Application	E, WB, ICC
Primary Accession	<a href="#">P05549</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	48kDa KDa

**Immunogen**

Purified recombinant fragment of human TFAP2A (AA: 105-211) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**TFAP2A - Additional Information**

**Gene ID** 7020

**Other Names**

AP-2; BOFS; AP2TF; TFAP2; AP-2alpha

**Dilution**

E~~ 1/10000  
WB~~ 1/500 - 1/2000  
ICC~~ 1/200 - 1/1000

**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.

**TFAP2A - 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 also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. 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.

#### TFAP2A - 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](#)

#### TFAP2A - Images

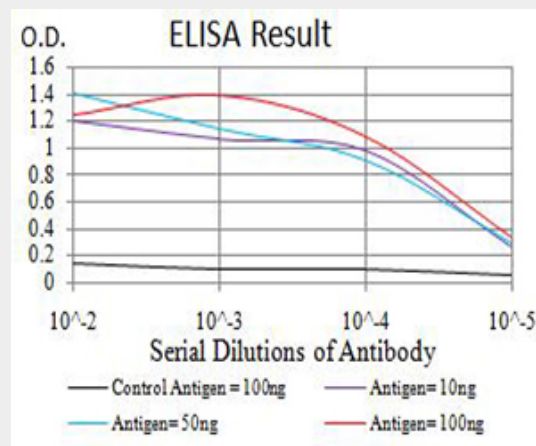


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

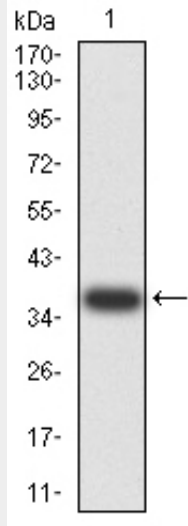


Figure 2: Western blot analysis using TFAP2A mAb against human TFAP2A (AA: 105-211) recombinant protein. (Expected MW is 37.5 kDa)

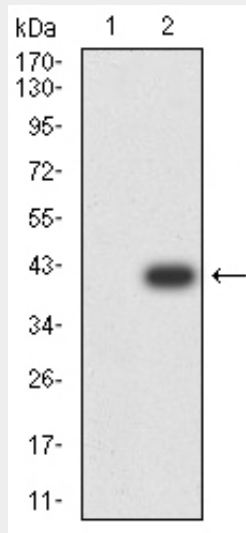


Figure 3: Western blot analysis using TFAP2A mAb against HEK293 (1) and TFAP2A (AA: 105-211)-hlgGfC transfected HEK293 (2) cell lysate.

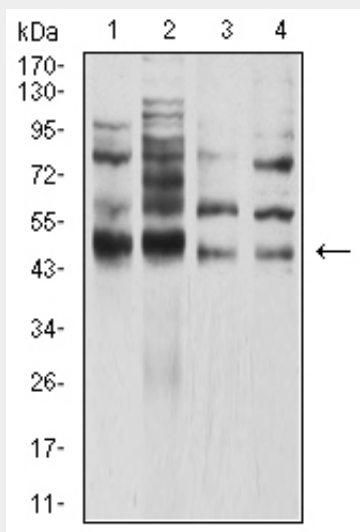


Figure 4:Western blot analysis using TFAP2A mouse mAb against Hela (1), PANC-1 (2), HEK293 (3), and MCF-7 (4) cell lysate.

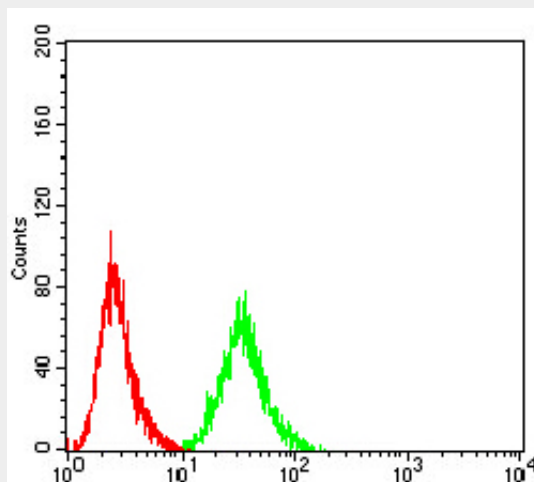


Figure 7:Flow cytometric analysis of Hela cells using TFAP2A mouse mAb (green) and negative control (red).

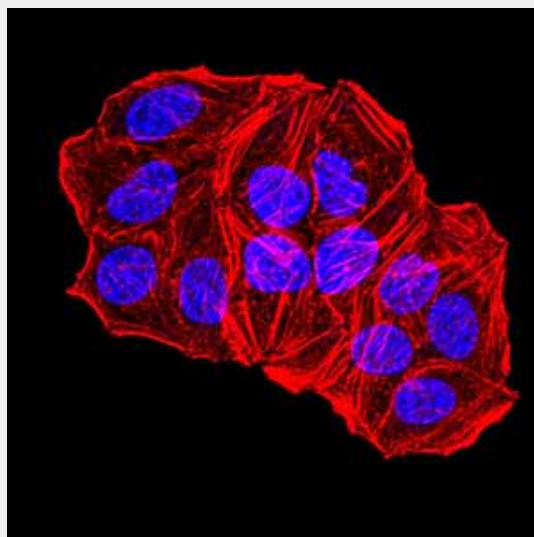


Figure 5:Immunofluorescence analysis of Hela cells using TFAP2A mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

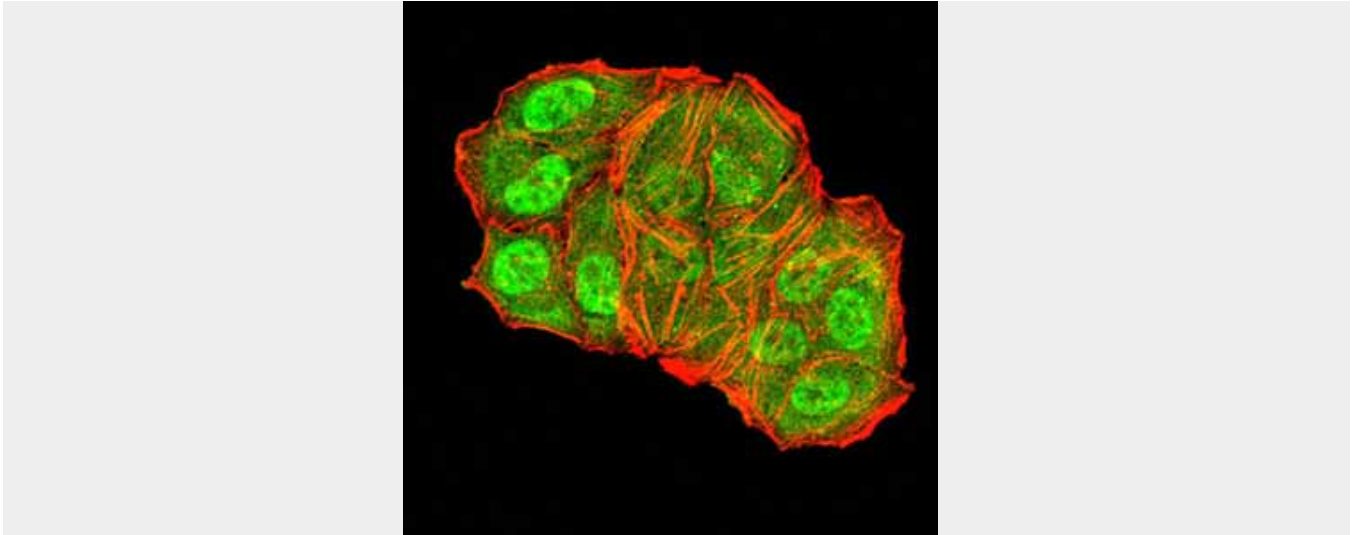


Figure 6: Immunofluorescence analysis of HeLa cells using TFAP2A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

#### **TFAP2A - References**

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