10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TFAP2A
Purified Mouse Monoclonal Antibody
Catalog # AO2498a

Specification

TFAP2A - Product Information

Application	**E, WB, ICC**
Primary Accession	P05549
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 Cytomety
- Cell Culture

TFAP2A - Images

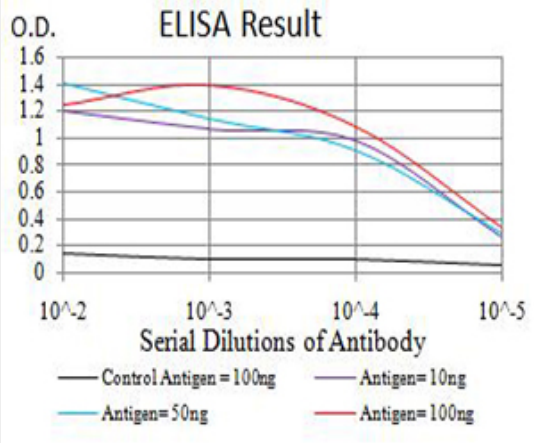


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

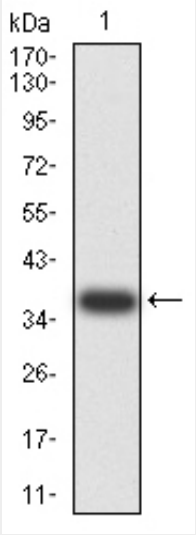


Figure 2:Western blot analysis using TFAP2A mAb against human TFAP2A (AA: 105-211) recombinant protein. (Expected MW is 37.5 kDa)

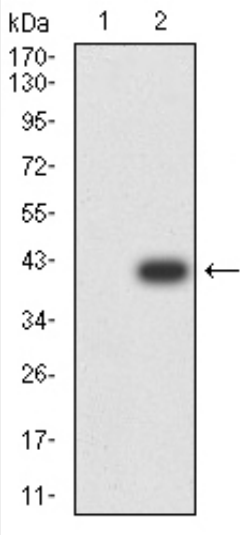
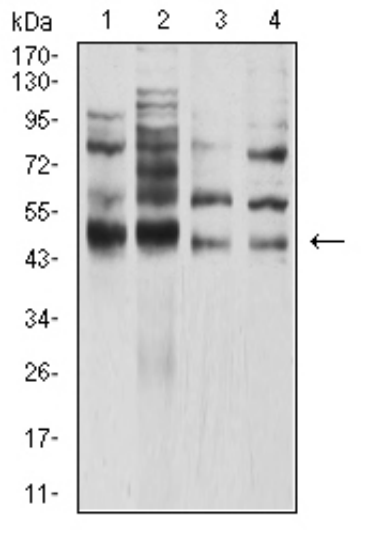


Figure 3:Western blot analysis using TFAP2A mAb against HEK293 (1) and TFAP2A (AA: 105-211)-hIgGFc transfected HEK293 (2) cell lysate.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

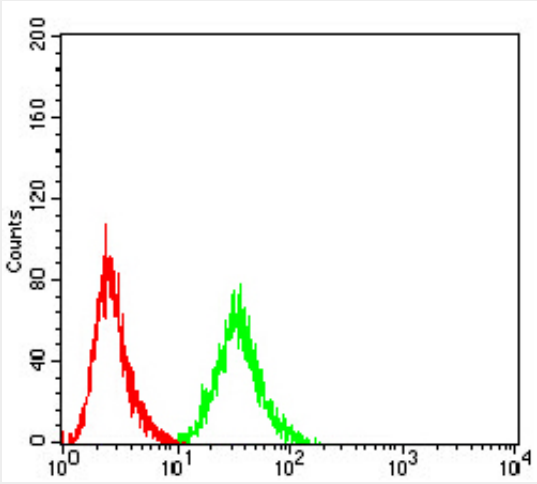


Figure 7:Flow cytometric analysis of Hela cells using TFAP2A mouse mAb (green) and negative control (red).

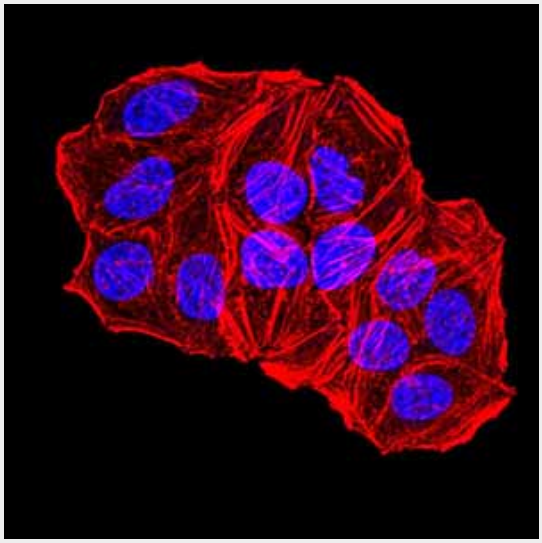


Figure 5:Immunofluorescence analysis of Hela cells using TFAP2A mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

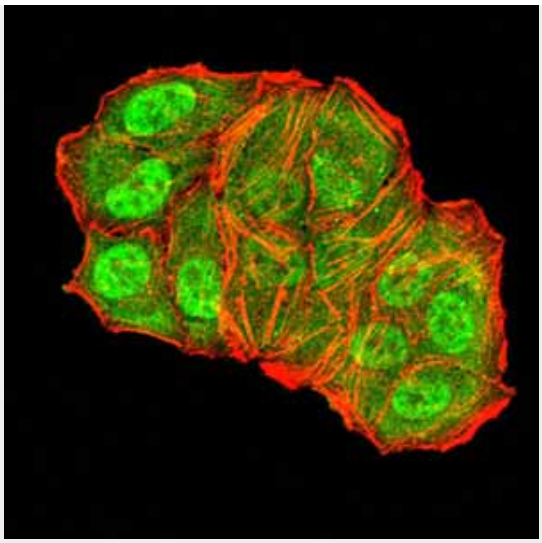


Figure 6:Immunofluorescence analysis of Hela cells using TFAP2A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

TFAP2A - References

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