

# AP2 gamma/TFAP2C Rabbit mAb

Catalog # AP75084

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P, FC, IP      |
| Primary Accession | <a href="#">Q92754</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 49177                  |

## Additional Information

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|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 7022                                                                                            |
| Other Names | TFAP2C                                                                                          |
| Dilution    | WB~~1:500-1:1000 IHC-P~~N/A FC~~1:20-1:50 IP~~1:20-1:50                                         |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

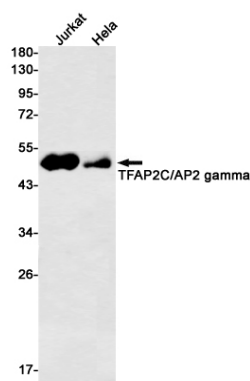
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| Name     | TFAP2C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Function | <p>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:<a href="#">11694877</a>, PubMed:<a href="#">24413532</a>). AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions (PubMed:<a href="#">11694877</a>, PubMed:<a href="#">24413532</a>). 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:<a href="#">24413532</a>).</p> |

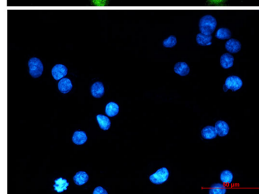
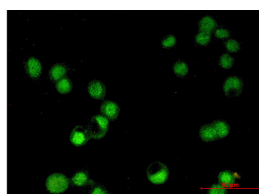
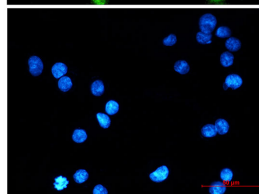
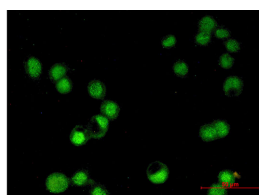
## Background

The protein encoded by this gene is a sequence-specific DNA-binding transcription factor involved in the activation of several developmental genes. The encoded protein can act as either a homodimer or heterodimer with other family members and is induced during retinoic acid-mediated differentiation. It plays a role in the development of the eyes, face, body wall, limbs, and neural tube.

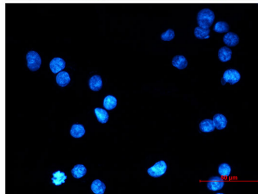
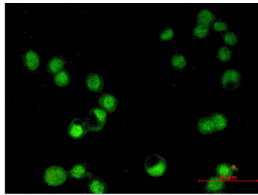
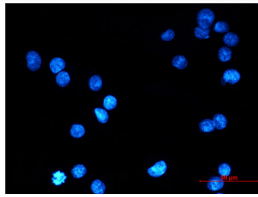
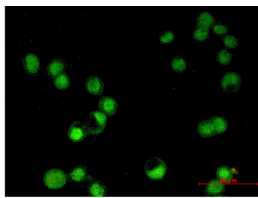
## Images



Western blot analysis of TFAP2C/AP2 gamma in Jurkat, HeLa lysates using Transcription Factor AP 2 gamma antibody.



Immunocytochemistry analysis of TFAP2C/AP2 gamma (green) in MCF-7 using TFAP2C/AP2 gamma antibody, and DAPI (blue)



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