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AP2 gamma/TFAP2C Rabbit mAb

Catalog # AP76391

Product Information

Application	WB, IHC-P, FC
Primary Accession	Q92754
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	49177

Additional Information

Gene ID	7022
Other Names	TFAP2C
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:50-1:100
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

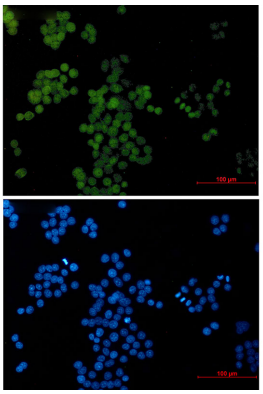
Name	TFAP2C
Function	Sequence-specific DNA-binding transcription factor that interacts with cellular enhancer elements to regulate transcription of selected genes, and which plays a key role in early embryonic development (PubMed:11694877, PubMed:24413532). AP-2 factors bind to the consensus sequence 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.

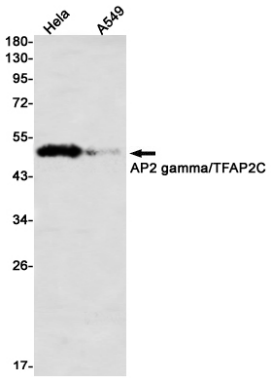
Background

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.

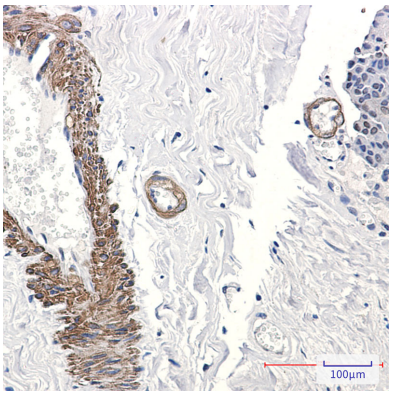
Images



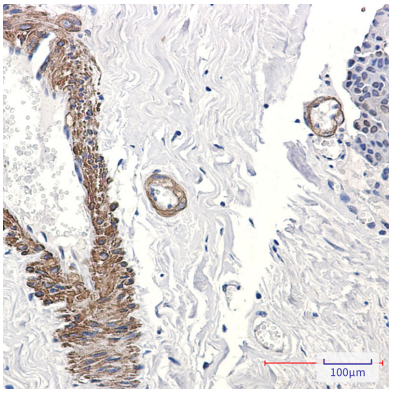
Immunocytochemistry analysis of Transcription Factor AP 2 gamma (green) in Hela using Transcription Factor AP 2 gamma antibody,and DAPI(blue).



Western blot analysis of AP2 gamma/TFAP2C in Hela, A549 lysates using AP2 gamma/TFAP2C antibody.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using AP2 gamma/TFAP2C antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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