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

TFAP2C Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21677c

Product Information

Application	WB, E
Primary Accession	Q92754
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB48469
Calculated MW	49177

Additional Information

Gene ID	7022
Other Names	Transcription factor AP-2 gamma, AP2-gamma, Activating enhancer-binding protein 2 gamma, Transcription factor ERF-1, TFAP2C
Target/Specificity	This TFAP2C antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 114-147 amino acids from the central region of human TFAP2C.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TFAP2C Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

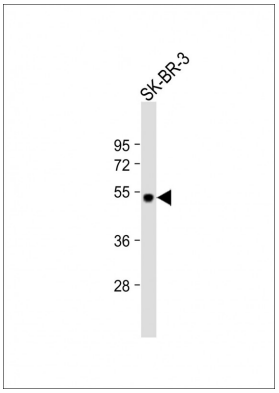
Background

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. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer.

References

Williamson J.A.,et al.Genomics 35:262-264(1996).
McPherson L.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:4342-4347(1997).
Haselton M.D.,et al.Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Deloukas P.,et al.Nature 414:865-871(2001).

Images



Anti-TFAP2C Antibody (Center) at 1:2000 dilution + SK-BR-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.