

AP2C Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50077**Specification**

AP2C Antibody - Product Information

Application	WB
Primary Accession	Q92754
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49 KDa
Antigen Region	420-448

AP2C Antibody - 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

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

AP2C Antibody - 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](http://www.uniprot.org/citations/11694877), PubMed: [24413532](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/11694877), PubMed: [24413532](http://www.uniprot.org/citations/24413532)). 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 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: <http://www.uniprot.org/citations/24413532> target="_blank">24413532).

Cellular Location

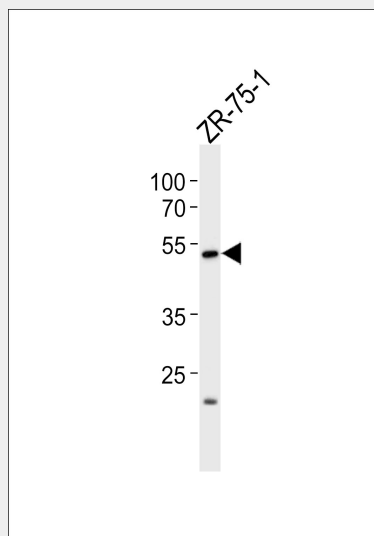
Nucleus.

AP2C Antibody - 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](#)

AP2C Antibody - Images



Western blot analysis of lysate from ZR-75-1 cell line, using AP2C Antibody (C11429). C11429 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.

AP2C Antibody - 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.

AP2C Antibody - 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.
Deloukas P.,et al.Nature 414:865-871(2001).
Nishizawa M.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.