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

M Tfap2c Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20531a

Product Information

Application	WB, E
Primary Accession	Q61312
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	49137
Antigen Region	123-144

Additional Information

Gene ID	21420
Other Names	Transcription factor AP-2 gamma, AP2-gamma, AP-22, Activating enhancer-binding protein 2 gamma, Tfap2c, Tcfap2c
Target/Specificity	This Mouse Tfap2c antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123-144 amino acids from the N-terminal region of Mouse Tfap2c.
Dilution	WB~~1:1000 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	M Tfap2c Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Tfap2c {ECO:0000303|PubMed:38243114}
Synonyms	Tcfap2c
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:38243114,

PubMed:8660922). AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions (PubMed:38243114, PubMed:8660922). TFAP2C plays a key role in early embryonic development by regulating both inner cell mass (ICM) and trophectoderm differentiation (PubMed:38243114). At the 8-cell stage, during morula development, controls expression of cell-polarity genes (PubMed:38243114). Upon trophoblast commitment, binds to late trophectoderm genes in blastocysts together with CDX2, and later to extra-embryonic ectoderm genes together with SOX2 (PubMed:38243114). Binds to both closed and open chromatin with other transcription factors (PubMed:38243114).

Cellular Location Nucleus {ECO:0000250|UniProtKB:Q92754}.

Tissue Location Expressed in lung, ovary and testis. Expressed in most squamous epithelia. Also, detected in several exocrine glands including the prostate, the preputial and salivary glands, serous glands of the tongue and ocular harderian glands

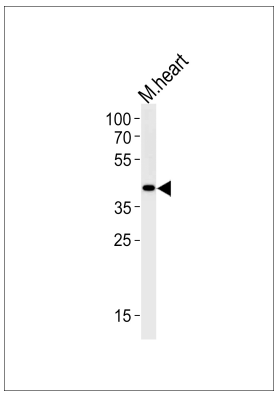
Background

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.

References

Oulad-Abdelghani M., et al. Exp. Cell Res. 225:338-347(1996).
Carninci P., et al. Science 309:1559-1563(2005).
Church D.M., et al. PLoS Biol. 7:E1000112-E1000112(2009).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Yahata T., et al. Genomics 80:601-613(2002).

Images



Mouse Tfap2c Antibody (N-term) (Cat. #AP20531a) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the Mouse Tfap2c antibody detected the Mouse Tfap2c protein (arrow).

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