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TFAP2A Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2053a

Product Information

Application	WB, IHC, FC, E
Primary Accession	P05549
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	7D2B5
Isotype	IgG1
Calculated MW	48062
Description	The protein encoded by this gene is a transcription factor that binds the consensus sequence 5'-GCCNNNGGC-3'. The encoded protein functions as either a homodimer or as a heterodimer with similar family members. This protein activates the transcription of some genes while inhibiting the transcription of others. Defects in this gene are a cause of branchiooculofacial syndrome (BOFS). Three transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human TFAP2A (AA: 1-100) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	7020
Other Names	Transcription factor AP-2-alpha, AP2-alpha, AP-2 transcription factor, Activating enhancer-binding protein 2-alpha, Activator protein 2, AP-2, TFAP2A, AP2TF, TFAP2
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TFAP2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TFAP2A

Synonyms	AP2TF, TFAP2
Function	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 can also suppress a number of genes including MCAM/MUC18 and C/EBP alpha. Is involved in the negative regulation of Wnt canonical signaling, and is a transcriptional repressor of MYC (PubMed:33000225). AP-2-alpha is the only AP-2 protein required for early morphogenesis of the lens vesicle. Together with the CITED2 coactivator, stimulates the PITX2 P1 promoter transcription activation. Associates with chromatin to the PITX2 P1 promoter region.
Cellular Location	Nucleus

References

1.Mol Hum Reprod. 2011 Nov;17(11):702-9. 2.Breast Cancer Res. 2011 Mar 4;13(2):R23.

Images

