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

Transcription factor AP-2-alpha Mouse mAb

Catalog # AP53517

Product Information

Application	IF, FC, ICC
Primary Accession	P05549
Reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Isotype	IgG1
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human TFAP2A expressed in E. Coli.
Purification	Affinity Purified
Calculated MW	48062

Additional Information

Gene ID	7020
Other Names	AP-2; BOFS; AP2TF; TFAP2; AP-2alpha
Dilution	IF~~1:50~200 FC~~1:10~50 ICC~~N/A
Format	Liquid in Purified antibody in PBS with 0.05% sodium azide.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

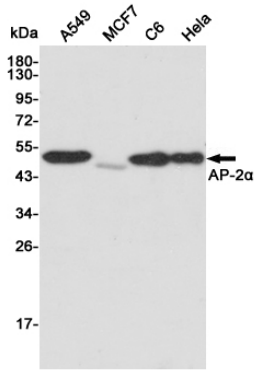
Protein Information

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

Background

Swiss-Prot Acc.P05549.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.

Images



Western blot detection of AP-2α in A549,MCF7,C6 and Hela cell lysates using AP-2α mouse mAb (1:1000 diluted).Predicted band size:48KDa.Observed band size:48KDa.

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