

# Transcription factor AP-2-alpha Mouse mAb

Catalog # AP53517

## Product Information

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

## Additional Information

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

## Protein Information

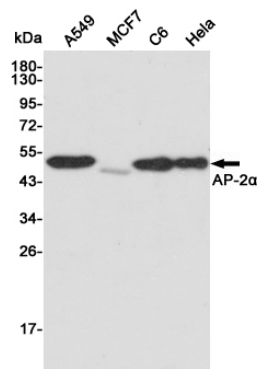
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<b>Name</b>	TFAP2A
<b>Synonyms</b>	AP2TF, TFAP2
<b>Function</b>	Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus 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. 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.
<b>Cellular Location</b>	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: 48 kDa. Observed band size: 48 kDa.

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