

**Transcription factor AP-2-alpha Mouse mAb**  
Catalog # AP53517**Specification**

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**Transcription factor AP-2-alpha Mouse mAb - Product Information**

Application	WB
Primary Accession	<a href="#">P05549</a>
Host	Mouse
Clonality	Monoclonal Antibody
Calculated MW	48062

**Transcription factor AP-2-alpha Mouse mAb - Additional Information****Gene ID** 7020**Other Names**

AP-2; BOFS; AP2TF; TFAP2; AP-2alpha

**Dilution**

WB~~1:1000

**Transcription factor AP-2-alpha Mouse mAb - 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 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.

**Cellular Location**

Nucleus.

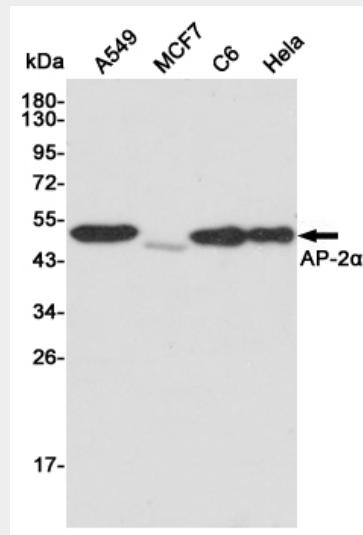
**Transcription factor AP-2-alpha Mouse mAb - Protocols**

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](#)

### Transcription factor AP-2-alpha Mouse mAb - Images



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

### Transcription factor AP-2-alpha Mouse mAb - Background

Swiss-Prot Acc.P05549. The protein encoded by this gene is a transcription factor that binds the consensus sequence 5'-GCCNNGGC-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.