

**ARG43619**  
anti-AP2 alpha antibodyPackage: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes AP2 alpha
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	AP2 alpha
Species	Human
Immunogen	Recombinant fragment corresponding to a.a. M1-G166 of Human AP2 alpha (TFAP2A).
Conjugation	Un-conjugated
Alternate Names	BOFS; TFAP2; Activating enhancer-binding protein 2-alpha; AP2-alpha; Transcription factor AP-2-alpha; AP-2; AP-2alpha; AP-2 transcription factor; Activator protein 2; AP2TF

### Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~45-50 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	TFAP2A
Gene Full Name	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)
Background	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.[provided by RefSeq, Dec 2009]
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. [UniProt]
Calculated Mw	48 kDa
PTM	Sumoylated on Lys-10; which inhibits transcriptional activity.
Cellular Localization	Nucleus.

## Images

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ARG43619 anti-AP2 alpha antibody WB image

Western blot: Rat spleen stained with ARG43619 anti-AP2 alpha antibody 1:5000 dilution.