

# Product datasheet

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# ARG43619 anti-AP2 alpha antibody

Package: 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% Na2HPO4, 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.

#### Bioinformation

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.

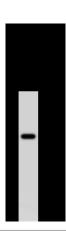
[UniProt]

Calculated Mw 48 kDa

PTM Sumoylated on Lys-10; which inhibits transcriptional activity.

Cellular Localization Nucleus.

## **Images**



#### ARG43619 anti-AP2 alpha antibody WB image

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