

Product Name: KD-Validated TFAP2A Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00870

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 48.1kDa

Antigen Information

Gene Name	TFAP2A TFAP2A; Transcription Factor AP-2 Alpha; AP-2; AP-2alpha; AP2TF; TFAP2; Transcription Factor AP-2 Alpha (Activating Enhancer Binding Protein 2 Alpha); Activating Enhancer-Binding Protein 2-Alpha; Transcription Factor AP-2-Alpha; AP-2 Transcription Factor; Activator Protein 2; Transcription Factor AP-2 Alpha (Activating Enhancer-Binding Protein 2 Alpha); AP2-Alpha; BOFS
Alternative Names	
Gene ID	7020.0
SwissProt ID	P05549
Immunogen	A synthesized peptide derived from human AP2 alpha

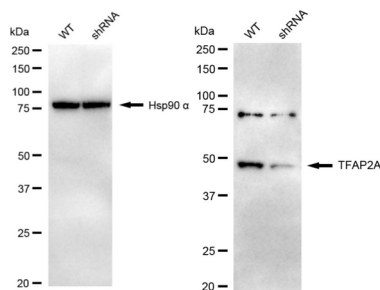
Background

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]

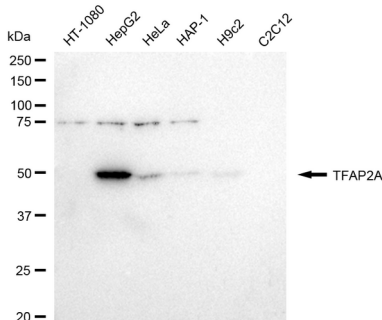
Research Area

Epigenetics and Nuclear Signaling

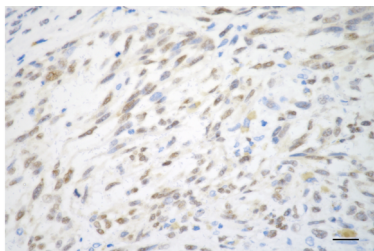
Image Data



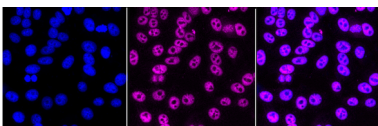
Western blotting analysis using TFAP2A antibody (KVA00870). TFAP2A expression in wild type (WT) and TFAP2A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TFAP2A antibody (KVA00870, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



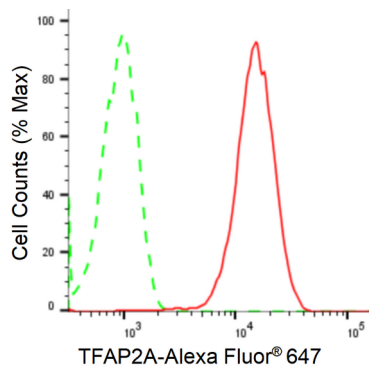
Western blotting analysis using TFAP2A antibody (KVA00870). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TFAP2A antibody (KVA00870, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using TFAP2A antibody (KVA00870, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with TFAP2A antibody (KVA00870, 1:1,000). Nuclei were stained blue with DAPI; TFAP2A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of TFAP2A expression in HepG2 cells using TFAP2A antibody (KVA00870, 1:2,000). Green, isotype control; red, TFAP2A.