

Rabbit AP-2 Polyclonal Antibody | anti-TFAP2A antibody

AP-2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321089	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

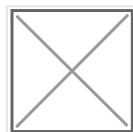
PRODUCT SYNONYMS

AP-2; Polyclonal Antibody; AP-2 Antibody; Activating enhancer binding protein 2 alpha; Activating enhancer-binding protein 2-alpha; Activator protein 2; AP 2 transcription factor; AP 2alpha; AP-2 transcription factor; AP2; AP2 Transcription Factor; AP2-alpha; AP2A_HUMAN; AP2TF; BOFS; FLJ51761; TFAP 2; TFAP 2A; TFAP2; TFAP2A; Transcription factor AP 2 alpha (activating enhancer binding protein 2 alpha); Transcription factor AP-2-alpha; Transcription factor AP2 alpha; Activating enhancer binding protein 2 beta; Activating enhancer-binding protein 2-beta; AP 2B; AP2 B; AP2-beta; AP2B; AP2B_HUMAN; AP2beta; MGC21381; OTTHUMP00000039925; PDA2; TFAP 2B; Tfap2b; Transcription factor AP 2 beta; Transcription factor AP-2-beta; Transcription factor AP2 beta; anti-TFAP2A antibody

PRODUCT SPECIFICATIONS

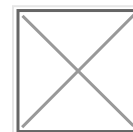
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AP-2 antibody detects endogenous levels of AP-2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	431
Applicable Applications for anti-TFAP2A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AP-2
Subcellular Location	Nucleus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321089 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on COLO205 cell lysate using AP-2 Antibody, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321089 at 1/100 staining human skin cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-TFAP2A antibody	Description: AP-2 alpha 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. 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. Subunit Structure: Binds DNA as a dimer. Can form homodimers or heterodimers with other AP-2 family members. Interacts with WWOX. Interacts with CITED4. Interacts with UBE2I. Interacts with RALBP1 in a complex also containing EPN1 and NUMB during interphase and mitosis. Interacts with KCTD1; this interaction represses transcription activation. Interacts (via C-terminus) with CITED2 (via C-terminus); the interaction stimulates TFAP2A-transcriptional activation. Interacts (via N-terminus) with EP300 (via N-terminus); the interaction requires CITED2. Interacts with KCTD15; this interaction inhibits TFAP2A transcriptional activation. Post-translational Modifications: Sumoylated on Lys-10; which inhibits transcriptional activity. Similarity: The PPxY motif mediates interaction with WWOX. Belongs to the AP-2 family.
References	Yang Y, Wei H, Song T, Cai A, Zhou Y, Peng J, Jiang S, Peng J; Journal: Mol Cell Endocrinol. E4BP4 mediates glucocorticoid-regulated adipogenesis through COX2.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73760407
NCBI GeneID	7020
NCBI Accession #	NP_001027451.1
NCBI GenBank Nucleotide #	NM_001032280.2
UniProt Accession #	P05549; Q13777; Q5TAV5; Q8N1C6
Molecular Weight	Observed: 49 kDa Predicted: 49 kDa
NCBI Official Full Name	transcription factor AP-2-alpha isoform b
NCBI Official Synonym Full Names	transcription factor AP-2 alpha
NCBI Official Symbol	TFAP2A
NCBI Official Synonym Symbols	AP-2; BOFS; AP2TF; TFAP2; AP-2alpha
NCBI Protein Information	transcription factor AP-2-alpha
UniProt Protein Name	Transcription factor AP-2-alpha

UniProt Gene Name	TFAP2A
UniProt Synonym Gene Names	AP2TF; TFAP2; AP2-alpha; AP-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ap-2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321089>