Anti-Transcription factor AP-2-alpha Antibody [PSH02-05]

HA721764



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat
Applications: WB, IHC-P, IF-Cell

Molecular Wt: Predicted band size: 48 kDa

Clone number: PSH02-05

Description: 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.

Immunogen: Recombinant protein within human TFAP2A aa 1-437 / 437.

Positive control: JAR cell lysate, HepG2 cell lysate, SiHa cell lysate, HepG2, human breast tissue, mouse eye

tissue, rat breast tissue, rat skin tissue.

Subcellular location: Nucleus.

Database links: SwissProt: P05549 Human | P34056 Mouse | P58197 Rat

Recommended Dilutions:

WB 1:1,000

IHC-P 1:200-1:1,000

IF-Cell 1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into

single-use upon delivery. Store at -20 °C long term.

Purity: Protein A affinity purified.

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Images

Fig1: Western blot analysis of Transcription factor AP-2-alpha on different lysates with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/1,000 dilution.

Lane 1: JAR cell lysate Lane 2: HepG2 cell lysate Lane 3: SiHa cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 48 kDa Observed band size: 48 kDa

Exposure time: 5 minutes;

4-20% SDS-PAGE gel.

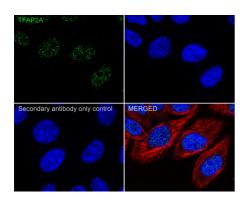


Fig2: Immunocytochemistry analysis of HepG2 cells labeling Transcription factor AP-2-alpha with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/100 dilution in 1% BSA in PBST overnight at 4 $^{\circ}$ C. Goat Anti-Rabbit IgG H&L (iFluor † M 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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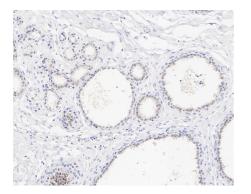


Fig3: Immunohistochemical analysis of paraffin-embedded human breast tissue with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721764) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

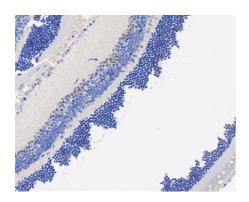


Fig4: Immunohistochemical analysis of paraffin-embedded mouse eye tissue with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH $_2$ O and PBS, and then probed with the primary antibody (HA721764) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

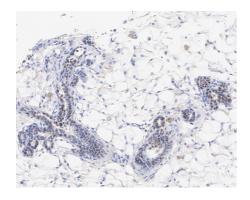


Fig5: Immunohistochemical analysis of paraffin-embedded rat breast tissue with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721764) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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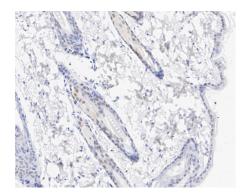


Fig6: Immunohistochemical analysis of paraffin-embedded rat skin tissue with Rabbit anti-Transcription factor AP-2-alpha antibody (HA721764) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721764) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Liao H et al. The comprehensive investigation of transcription factor AP-2 alpha in lung adenocarcinoma. Transl Cancer Res. 2020 Mar
- 2. Cui Y et al. TFAP2A-induced SLC2A1-AS1 promotes cancer cell proliferation. Biol Chem. 2021 Feb