AP-2α (m2): 293T Lysate: sc-118447



The Power to Question

BACKGROUND

AP-2 transcription factor family members include AP-2 α , AP-2 β and AP-2 γ , which specifically bind to the DNA consensus sequence CCCCAGGC and initiate transcription of selected genes. AP-2, also known as ERF-1, plays a role in regulating estrogen receptor expression. AP- 2β , a splice variant of AP- 2α , inhibits AP-2 activity. Besides subscribing to the AP-2 complex, AP-2 α , AP-2 β and AP-2y proteins compose the OB2-1 transcription factor complex. OB2-1 specifically upregulates expression of the proto-oncogene c-ErbB-2, which is overexpressed in 25-30% of breast cancers. The gene encoding AP-2 α maps to human chromosome 6p24. AP-2 α may play an important role in the development of ectodermal-derived tissues. Deleterious mutations involving the AP-2 α gene are linked to microphthalmia, corneal clouding and other anterior eye chamber defects. The ubiquitously expressed AP-4 transcription factor specifically binds to the DNA consensus sequence 5'-CAGCTG-3'. AP-4 interacts with promoters for immunoglobulin- κ gene families and simian virus 40. AP-4 may enhance the transcription of the human Huntington's disease gene. AP-4 is a helix-loop-helix protein that contains two distinctive leucine repeat elements.

REFERENCES

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- 4. Bosher, J.M., et al. 1996. A family of AP-2 proteins regulates c-ErbB-2 expression in mammary carcinoma. Oncogene 13: 1701-1707.
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- McPherson, L.A., et al. 1997. Identification of ERF-1 as a member of the AP2 transcription factor family. Proc. Natl. Acad. Sci. USA 94: 4342-4347.
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CHROMOSOMAL LOCATION

Genetic locus: Tfap2a (mouse) mapping to 13 A3.3.

PRODUCT

AP-2 α (m2): 293T Lysate represents a lysate of mouse AP-2 α transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

AP-2 α (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive AP-2 α antibodies. Recommended use: 10-20 μ l per lane.

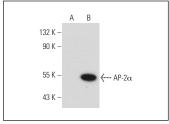
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

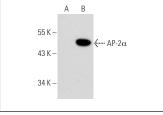
AP- 2α (B-11): sc-55485 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse AP- 2α expression in AP- 2α transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





AP-2 α (B-11): sc-55485. Western blot analysis of AP-2 α expression in non-transfected: sc-117752 (**A**) and mouse AP-2 α transfected: sc-118447 (**B**) 293T whole

AP-2 α (D-12): sc-25343. Western blot analysis of AP-2 α expression in non-transfected: sc-117752 (**A**) and mouse AP-2 α transfected: sc-118447 (**B**) 293T whole cell Ivsates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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