

AP-2 δ (Q-12): sc-132216

BACKGROUND

AP-2 transcription factor family members include AP-2 α , AP-2 β , AP-2 γ , AP-2 δ and AP-2 ϵ , which specifically bind to DNA and regulate transcription of selected genes. AP-2 proteins contain a helix-span-helix motif at their C-terminus and a basic central region that, together, mediate DNA binding and dimerization. AP-2 family members have various roles in apoptosis, development, morphogenesis and cell-cycle control. AP-2 δ , also known as TFAP2D or TFAP2BL1 (transcription factor AP-2 β -like 1), is a nuclear protein and is predominantly expressed in skeletal muscle, brain, small intestine, prostate, placenta and thymus. AP-2 δ binds to DNA as a dimer, associated either as a homodimer or as a heterodimer with other members of the AP-2 family. Distinct from other members of the family, AP-2 δ exhibits a different DNA sequence affinity and lacks the PY motif as well as other critical residues in its transactivation domain. This suggests that AP-2 δ may interact with a separate group of coactivators and transactivate genes differently than the other AP-2 proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TFAP2D (human) mapping to 6p12.3; Tcfap2d (mouse) mapping to 1 A3.

RESEARCH USE

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

SOURCE

AP-2 δ (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AP-2 δ of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132216 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-132216 X, 200 μ g/0.1 ml.

APPLICATIONS

AP-2 δ (Q-12) is recommended for detection of AP-2 δ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other AP-2 family members.

AP-2 δ (Q-12) is also recommended for detection of AP-2 δ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for AP-2 δ siRNA (h): sc-95077, AP-2 δ siRNA (m): sc-141133, AP-2 δ shRNA Plasmid (h): sc-95077-SH, AP-2 δ shRNA Plasmid (m): sc-141133-SH, AP-2 δ shRNA (h) Lentiviral Particles: sc-95077-V and AP-2 δ shRNA (m) Lentiviral Particles: sc-141133-V.

AP-2 δ (Q-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of AP-2 δ : 50 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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