

Jumonji (K-17): sc-47605

BACKGROUND

Jumonji, a nuclear protein crucial for neural tube formation, plays an important role in down-regulating atrial natriuretic factor (ANF) gene expression through its interaction with GATA-4 and NKX2-5. Required for normal development of the heart, Jumonji participates in negatively regulating the signaling involved in cell proliferation. Jumonji, which also is designated ARID domain-containing protein 2, is a member of the JMJ transcription factor family of proteins. During embryogenesis Jumonji, which localizes to the nucleus, is expressed primarily in neurons, especially dorsal root ganglion cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: JARID2 (human) mapping to 6p22.3; Jarid2 (mouse) mapping to 13 A5.

SOURCE

Jumonji (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Jumonji 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-47605 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-47605 X, 200 μ g/0.1 ml.

APPLICATIONS

Jumonji (K-17) is recommended for detection of Jumonji of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Jumonji (K-17) is also recommended for detection of Jumonji in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Jumonji siRNA (h): sc-60872, Jumonji siRNA (m): sc-60873, Jumonji shRNA Plasmid (h): sc-60872-SH, Jumonji shRNA Plasmid (m): sc-60873-SH, Jumonji shRNA (h) Lentiviral Particles: sc-60872-V and Jumonji shRNA (m) Lentiviral Particles: sc-60873-V.

Jumonji (K-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Jumonji: 150-160 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

RESEARCH USE

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

PROTOCOLS

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