

p400 (C-16): sc-66497

BACKGROUND

NuAR is a multi-protein histone acetyltransferase complex that functions to acetylate the nucleosomal Histones H4 and H2A, thereby activating transcription of select target genes. p400, also known as EP400 (E1A binding protein p400) or mDomino, localizes to the nucleus and is a component of the NuAR complex. Expressed in brain, liver, thymus, lung, spleen, colon and kidney, p400 regulates the transcriptional activity of proteins such as MZF-1 and contributes to the ATPase and helicase activities of NuA4. p400 is a Swi2/Snf2-related protein that can interact with the adenovirus oncoprotein E1A, thus activating the proapoptotic activity of E1A. The ability of p400 to regulate transcriptional and apoptotic activity suggests that the NuAR complex may be a crucial component of cell proliferation, transformation and, possibly, carcinogenesis. Five isoforms of p400 exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: EP400 (human) mapping to 12q24.33; Ep400 (mouse) mapping to 5 F.

SOURCE

p400 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of p400 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-66497 P, (100 µg 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-66497 X, 200 µg/0.1 ml.

RESEARCH USE

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

APPLICATIONS

p400 (C-16) is recommended for detection of p400 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

p400 (C-16) is also recommended for detection of p400 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for p400 siRNA (h): sc-62743, p400 siRNA (m): sc-62744, p400 shRNA Plasmid (h): sc-62743-SH, p400 shRNA Plasmid (m): sc-62744-SH, p400 shRNA (h) Lentiviral Particles: sc-62743-V and p400 shRNA (m) Lentiviral Particles: sc-62744-V.

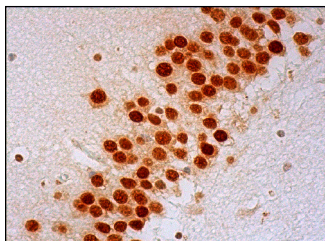
p400 (C-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of p400: 350 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



p400 (C-16): sc-66497. Immunoperoxidase staining of formalin fixed, paraffin-embedded human hippocampus tissue showing nuclear staining of neuronal cells and glial cells.

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.



Try **p400 (2A7): sc-517046**, our highly recommended monoclonal alternative to p400 (C-16).