

X11 α (D-20): sc-18332

BACKGROUND

The β -amyloid precursor protein (β -APP) is a major constituent of the amyloid deposits in patients with Alzheimer's disease. The β -amyloid precursor is known to interact with several proteins, including X11 and the G heterotrimeric protein APP-BP1. The neuronal, transmembrane protein X11 is known to bind to the β -amyloid precursor protein via a phosphotyrosine binding (PTB) domain, reducing the secretion of cellular β -APP and slowing β -APP processing pathways. X11 binds specifically to the YENPTY motif, which is involved in the internalization of β -APP. Multiple splice variants of X11 have been identified, including X11 α (also designated Mint 1), X11 β (Mint 2) and X11 γ (Mint 3).

CHROMOSOMAL LOCATION

Genetic locus: APBA1 (human) mapping to 9q21.11; Apba1 (mouse) mapping to 19 B.

SOURCE

X11 α (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of X11 α 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-18332 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4 $^{\circ}$ 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.

APPLICATIONS

X11 α (D-20) is recommended for detection of X11 α 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).

X11 α (D-20) is also recommended for detection of X11 α in additional species, including canine and bovine.

Suitable for use as control antibody for X11 α siRNA (h): sc-36851, X11 α siRNA (m): sc-36852, X11 α shRNA Plasmid (h): sc-36851-SH, X11 α shRNA Plasmid (m): sc-36852-SH, X11 α shRNA (h) Lentiviral Particles: sc-36851-V and X11 α shRNA (m) Lentiviral Particles: sc-36852-V.

Molecular Weight (predicted) of X11 α : 93 kDa.

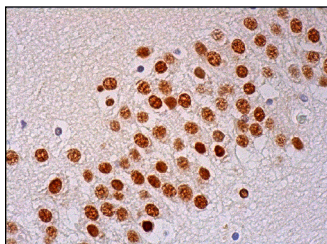
Molecular Weight (observed) of X11 α : 120-156 kDa.

Positive Controls: mouse brain extract: sc-2253 or rat brain extract: sc-2392.

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



X11 α (D-20): sc-18332. Immunoperoxidase staining of formalin fixed, paraffin-embedded human hippocampus tissue showing nuclear staining of neuronal cells and glial cells.

PROTOCOLS

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

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Try **X11 α (A-12): sc-137022** or **X11 α (B-12): sc-137024**, our highly recommended monoclonal alternatives to X11 α (D-20).