



AChBP (Q-16): sc-103953

BACKGROUND

Acetylcholine (ACh) is a neurotransmitter present in both the peripheral nervous system (PNS) and the central nervous system (CNS) that is important for the transmission of nerve impulses. In the PNS, acetylcholine plays a role in skeletal muscle movement and the regulation of smooth muscle and cardiac muscle, while in the CNS, acetylcholine is thought to be involved in mood, learning and memory. AChBP (acetylcholine-binding protein), is a 229 amino acid protein which modulates neuronal synaptic transmission by binding to acetylcholine. Containing one Ig-like domain, AChBP is expressed in glial cells and is secreted into the synaptic cleft. AChBP is N-glycosylated and forms a homopentamer.

REFERENCES

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SOURCE

AChBP (Q-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AChBP of *Lymnaea stagnalis* 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-103953 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AChBP (Q-16) is recommended for detection of AChBP of *Lymnaea stagnalis* 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).

Molecular Weight of AChBP: 26 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.

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.