

GABA_A Rα5 (h): 293T Lysate: sc-111120

BACKGROUND

GAD-65 and GAD-67, glutamate decarboxylases, function to catalyze the production of GABA (γ-aminobutyric acid). In the central nervous system GABA functions as the main inhibitory transmitter by increasing a Cl⁻ conductance that inhibits neuronal firing. GABA has been shown to activate both ionotropic (GABA_A) and metabotropic (GABA_B) receptors as well as a third class of receptors called GABA_C. Both GABA_A and GABA_C are ligand-gated ion channels, however, they are structurally and functionally distinct. Members of the GABA_A receptor family include GABA_A Rα1-6, GABA_A Rβ1-3, GABA_A Re, GABA_A Rd, GABA_A Rγ1-3, GABA_A Rρ1 and GABA_A Rρ2. The GABA_B family is composed of GABA_B R1α and GABA_B R1β. GABA transporters have also been identified and include GABA T-1, GABA T-2 and GABA T-3 (also designated GAT-1, -2 and -3). The GABA transporters function to terminate GABA action.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GABRA5 (human) mapping to 15q12.

PRODUCT

GABA_A Rα5 (h): 293T Lysate represents a lysate of human GABA_A Rα5 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

GABA_A Rα5 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive GABA_A Rα5 antibodies. Recommended use: 10-20 µl per lane.

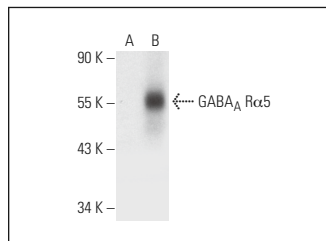
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GABA_A Rα5 (A-5): sc-393921 is recommended as a positive control antibody for Western Blot analysis of enhanced human GABA_A Rα5 expression in GABA_A Rα5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



GABA_A Rα5 (A-5): sc-393921. Western blot analysis of GABA_A Rα5 expression in non-transfected: sc-117752 (A) and human GABA_A Rα5 transfected: sc-111120 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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