

Galanin (C-20): sc-16413

BACKGROUND

Though originally implicated in the regulation of feeding behavior, the neuropeptide Galanin is now known to be involved in several physiological functions, including reproduction, and that it also inhibits various aspects of neurotransmission and memory. Galanin influences gonadotrophin-releasing hormone secretion in the hypothalamo-pituitary axis. Galanin is localized in brain pathways involved in both cognition and affect, and may inhibit learning and memory by inhibiting neurotransmitter release and neuronal firing rate. Galanin is upregulated in primary afferent and sympathetic neurones and may be involved in the development of sympathetic perineuronal baskets ("rings") following nerve injury.

REFERENCES

1. Key, S. and Wray, S. 2000. Two olfactory placode derived Galanin subpopulations: luteinizing hormone-releasing hormone neurones and vomeronasal cells. *J. Neuroendocrinol.* 12: 535-545.
2. Steiner, R.A., Hohmann, J.G., Holmes, A., Wrenn, C.C., Cadd, G., Jureus, A., Clifton, D.K., Luo, M., Gutshall, M., Ma, S.Y., Mufson, E.J. and Crawley, J.N. 2001. Galanin transgenic mice display cognitive and neurochemical deficits characteristic of Alzheimer's disease. *Proc. Natl. Acad. Sci. USA* 98: 4184-4189.
3. Kleine, B., Wolfahrt, S., Lotsch, M., Gantner, T. and Rossmannith, W.G. 2001. Expression of Galanin in human placenta. *Mol. Hum. Reprod.* 7: 379-385.

CHROMOSOMAL LOCATION

Genetic locus: GAL (human) mapping to 11q13.2.

SOURCE

Galanin (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Galanin 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-16413 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Galanin (C-20) is recommended for detection of Galanin precursor and Galanin message-associated peptide (GMAP) of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for Galanin siRNA (h): sc-43797, Galanin shRNA Plasmid (h): sc-43797-SH and Galanin shRNA (h) Lentiviral Particles: sc-43797-V.

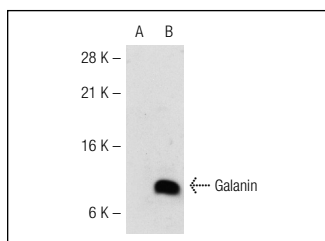
Molecular Weight of Galanin: 13 kDa.

Positive Controls: Galanin (h): 293T Lysate: sc-114709.

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.

DATA



Galanin (C-20): sc-16413. Western blot analysis of Galanin expression in non-transfected: sc-117752 (A) and human Galanin transfected: sc-114709 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Skotheim, R.I., Lind, G.E., Monni, O., Nesland, J.M., Abeler, V.M., Fossa, S.D., Duale, N., Brunborg, G., Kallioniemi, O., Andrews, P.W. and Lothe, R.A. 2005. Differentiation of human embryonal carcinomas *in vitro* and *in vivo* reveals expression profiles relevant to normal development. *Cancer Res.* 65: 5588-5598.

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.

MONOS
Satisfaction
Guaranteed

Try **Galanin (H-11): sc-166431** or **Galanin (B-8): sc-166927**, our highly recommended monoclonal alternatives to Galanin (C-20).