**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 hypothalamic-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.

**CHROMOSOMAL LOCATION**

Genetic locus: GAL (human) mapping to 11q13.3.

**SOURCE**

Galanin (H-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 97-123 near the C-terminus of Galanin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa lightchain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Galanin (H-11) is available conjugated to agarose (sc-166431 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166431 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-166431 PE), fluorescein (sc-166431 FITC), Alexa Fluor® 488 (sc-166431 AF488), Alexa Fluor® 546 (sc-166431 AF546), Alexa Fluor® 594 (sc-166431 AF594) or Alexa Fluor® 647 (sc-166431 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-166431 AF680) or Alexa Fluor® 790 (sc-166431 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-166431 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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**APPLICATIONS**

Galanin (H-11) is recommended for detection of Galanin precursor and Galanin message-associated peptide (GMAP) of human origin by Western Blotting (starting dilution 1:100, 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), 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).

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 (h2): 293T Lysate: sc-110110.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.