

Galanin (H-11): sc-166431

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.

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 light chain 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, IHC(P) 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, IHC(P) 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).

Alexa Fluor[®] is a trademark of Molecular Probes, Inc., Oregon, USA

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.

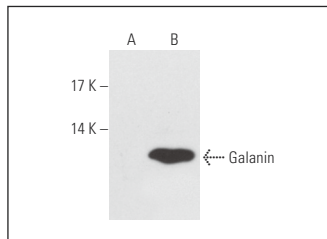
Molecular Weight of Galanin: 13 kDa.

Positive Controls: Galanin (h2): 293T Lysate: sc-110110.

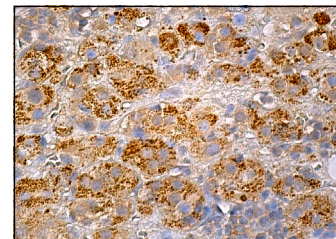
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



Galanin (H-11): sc-166431. Western blot analysis of Galanin expression in non-transfected: sc-117752 (A) and human Galanin transfected: sc-110110 (B) 293T whole cell lysates.



Galanin (H-11): sc-166431. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Mazzatenta, A., et al. 2014. In the carotid body, Galanin is a signal for neurogenesis in young, and for neurodegeneration in the old and in drug-addicted subjects. *Front. Physiol.* 5: 427.
- Di Giulio, C., et al. 2015. Selective expression of Galanin in neuronal-like cells of the human carotid body. *Adv. Exp. Med. Biol.* 860: 315-323.
- Mazzatenta, A., et al. 2016. Coexpression of Galanin and nestin in the chemoreceptor cells of the human carotid body. *Adv. Exp. Med. Biol.* 885: 77-82.
- Patodia, S., et al. 2018. The ventrolateral medulla and medullary raphe in sudden unexpected death in epilepsy. *Brain* 141: 1719-1733.
- Kim, J.S., et al. 2019. Neuropeptides profile and increased innervation in Becker's nevus. *Ann. Dermatol.* 31: 154-163.
- Yu, Y., et al. 2020. Integrated analysis of genomic and transcriptomic profiles identified a prognostic immunohistochemistry panel for esophageal squamous cell cancer. *Cancer Med.* 9: 575-585.
- Somani, A., et al. 2020. Neuropeptide depletion in the amygdala in sudden unexpected death in epilepsy: a postmortem study. *Epilepsia* 61: 310-318.

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.