

## Anti-Galanin [5B4] Bulk Size Ab00522-10.7-BT

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** 5B4

**Alternative Name(s) of Target:** Galanin peptide

**UniProt Accession Number of Target Protein:** P22466

**Published Application(s):** ICC, WB, Block, ELISA

**Published Species Reactivity:** Human, Mouse

**Immunogen:** C-terminal fusions of KLH to human galanin,

**Specificity:** The antibody binds to galanin with an affinity constant (Kd) of 0.13 nM.

**Application Notes:** The antibody binds specifically to galanin, a neuropeptide involved in many biological processes, including nociception, modulation and inhibition of action potentials, cognition, feeding, regulation of mood and blood pressure, smooth muscle contraction of the gastrointestinal (GI) tract and insulin release. Galanin acts on three G-protein coupled receptors, GALR1, GALR2 and GALR3, which are highly expressed in the brain, spinal cord and GI tract of humans and other mammals. Activation of the receptors has been reported to activate ATP-sensitive K<sup>+</sup> channels, and inhibit voltage-gated Ca<sup>2+</sup> channels. Galanin has been associated with the development of cancer, Alzheimer's disease, epilepsy, depression, eating disorders, diabetes and obesity. The monoclonal antibody 5B4 binds to the C-terminal region of Galanin, between residues 21 and 27, blocking its activity, and can be used clinically in the prevention and treatment of diseases mentioned.

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:**

PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.