

## Anti-Galanin Antibody Picoband™

Catalog Number: A00606-1

### About GAL

Galanin is a neuropeptide encoded by the GAL gene, that is widely expressed in the brain, spinal cord, and gut of humans as well as other mammals. This gene encodes a neuroendocrine peptide that is widely expressed in the central and peripheral nervous systems and also the gastrointestinal tract, pancreas, adrenal gland and urogenital tract. The encoded protein is a precursor that is proteolytically processed to generate two mature peptides: galanin and galanin message-associated peptide (GMAP). Galanin has diverse physiological functions including nociception, feeding and energy homeostasis, osmotic regulation and water balance. GMAP has been demonstrated to possess antifungal activity and hypothesized to be part of the innate immune system.

### Overview

Product Name	Anti-Galanin Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Galanin Antibody Picoband™ catalog # A00606-1. Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P22466

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Galanin, which shares 86.2% amino acid (aa) sequence identity with both mouse and rat Galanin.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p>

## Anti-Galanin Antibody Picoband™ (A00606-1) Images

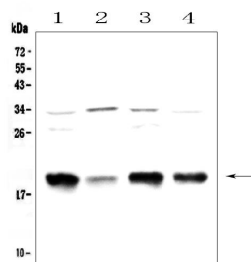


Figure 1. Western blot analysis of Galanin using anti-Galanin antibody (A00606-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: rat small intestine tissue lysates,

Lane 3: mouse brain tissue lysates,

Lane 4: mouse small intestine tissue lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Galanin antigen affinity purified polyclonal antibody (Catalog # A00606-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Galanin at approximately 19KD. The expected band size for Galanin is at 13KD.

## 2 Publications Citing This Product

1. PubMed ID: 10.1007/s13311-021-01066-x, Activation of Galanin Receptor 1 with M617 Attenuates Neuronal Apoptosis via ERK/GSK-3beta/TIP60 Pathway After Subarachnoid Hemorrhage in Rats

2. PubMed ID: 34086200, Shi H,Fang Y,Huang L,Gao L,Lenahan C,Okada T,Travis ZD,Xie S,Tang H,Lu Q,Liu R,Tang J,Cheng Y,Zhang JH.Activation of Galanin Receptor 1 with M617 Attenuates Neuronal Apoptosis via ERK/GSK-3beta/TIP60 Pathway After Subarachnoid Hemorrhage in Rats.Neurotherapeutics.2021 Jun 4.doi:10.1007/s13311-021-01066-x.Epub ahead of print.PMID:34086200.

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