BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-GABA B Receptor 1/GABBR1 Antibody Picoband™

**Catalog Number:** A07297-1

## About GABBR1

Gamma-aminobutyric acid (GABA) B receptor, 1 (GABAB1), is a G-protein coupled receptor subunit encoded by the GABBR1 gene. This gene encodes a receptor for gamma-aminobutyric acid (GABA), which is the main inhibitory neurotransmitter in the mammalian central nervous system. This receptor functions as a heterodimer with GABA (B) receptor 2. Defects in this gene may underlie brain disorders such as schizophrenia and epilepsy. Alternative splicing generates multiple transcript variants, but the full-length nature of some of these variants has not been determined.

## Overview

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| Product Name | Anti-GABA B Receptor 1/GABBR1 Antibody Picoband™ |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-GABA B Receptor 1/GABBR1 Antibody Picoband™ catalog # A07297-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| 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 | Q9UBS5 |

## Technical Details

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| Immunogen | E.coli-derived human GABBR1 recombinant protein (Position: Q186-D405). Human GABBR1 shares 99.5% amino acid (aa) sequence identity with both mouse and rat GABBR1. |
| 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. |
| Purification | Immunogen affinity purified. |

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

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# Anti-GABA B Receptor 1/GABBR1 Antibody Picoband™ (A07297-1) Images

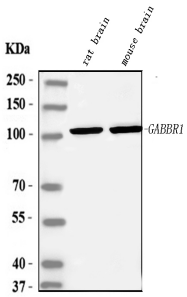


Figure 1. Western blot analysis of GABBR1 using anti-GABBR1 antibody (A07297-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat brain tissue lysates,
Lane 2: mouse brain tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GABBR1 antigen affinity purified polyclonal antibody (Catalog # A07297-1) 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 1:5000 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 GABBR1 at approximately 108 kDa. The expected band size for GABBR1 is at 108,130 kDa.