

## Product datasheet for **AP01268PU-N**

### **GABA B Receptor 1 (GABBR1) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 930-950 of Human GABAB R1.
Specificity:	This antibody detects endogenous levels of GABBR1 protein (region surrounding Pro931).
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 110 kDa
Gene Name:	gamma-aminobutyric acid type B receptor subunit 1
Database Link:	<u><a href="#">Entrez Gene 54393 Mouse</a></u> <u><a href="#">Entrez Gene 81657 Rat</a></u> <u><a href="#">Entrez Gene 2550 Human</a></u> <u><a href="#">Q9UBS5</a></u>



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**Background:**

GAD-65 and GAD-67, glutamate decarboxylases of 65 kDa and 67 kDa, respectively, function to catalyze the production of GABA (gamma-aminobutyric acid). In the central nervous system GABA (gamma-aminobutyric acid) functions as the main inhibitory transmitter by increasing a Cl<sup>-</sup> conductance that inhibits neuronal firing. GABA has been shown to activate both ionotropic (GABAA) and metabotropic (GABAB) receptors as well as a third class of receptors called GABAC. Both GABAA and GABAC are ligand-gated ion channels, however, they are structurally and functionally distinct. Members of the GABAA receptor family include GABAA R $\alpha$ 1-6, GABAA R $\beta$ 1-3, GABAA R $\epsilon$ , GABAA R $\delta$ , GABAA Ry1-3, GABAA Rp1 and GABAA Rp2. The GABAB family is composed of GABAB R1 $\alpha$  and GABAB R1 $\beta$ . GABA transporters have also been identified and include GABA T-1, GABA T-2 and GABA T-3 (also designated GAT-1, -2, and -3). The GABA transporters function to terminate GABA action.

**Synonyms:**

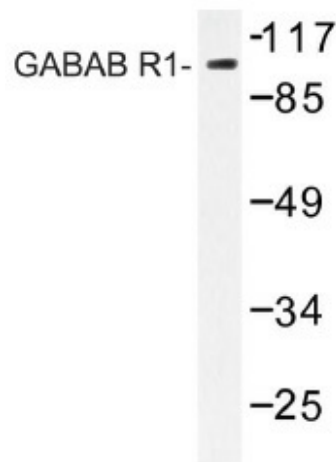
GABA-B receptor 1, GABA-B-R1, GABA-BR1, GABABR1, Gb1, GPRC3A

**Protein Families:**

Druggable Genome, GPCR, Secreted Protein, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

Western blot (WB) analysis with extracts from K562 cells using GABBR1 antibody.