

Product datasheet for **TA328812**

Gabrg2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide QKSDDDYEDYASNKT(C), corresponding to amino acid residues 39-53 of rat GABA(A) ? 2 Receptor. Extracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	gamma-aminobutyric acid type A receptor gamma 2 subunit
Database Link:	NP_899156 Entrez Gene 2566 Human Entrez Gene 14406 Mouse Entrez Gene 29709 Rat P18508



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Background:

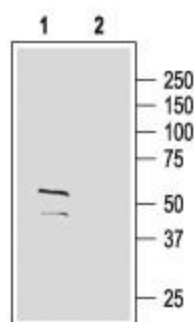
The neurotransmitter GABA (γ -aminobutyric acid) inhibits the activity of signal-receiving neurons by interacting with the GABAA receptor on these cells.¹ There are two major types of GABA receptors: the ionotropic GABAA (GABAA R) and the metabotropic GABAB receptors. GABAA R belongs to the ligand gated ion channel superfamily. It is a heteropentamer, with all of its five subunits contributing to the pore formation. To date, eight subunit isoforms were cloned: α , β , γ , δ , ϵ , ρ , σ , and τ . The native GABAA receptor, in most cases, consists of 2 α , 2 β and 1 γ subunit. Three γ subunits genes have been identified in mammals. The binding of GABA to its GABAA receptor results in conformational changes that open a Cl⁻ channel, producing an increase in membrane conductance, resulting in inhibition of neural activity. Recently, a genetic linkage between familial epilepsy syndrome and mutations in the γ 2 subunit of the GABAA receptor have been demonstrated.

Synonyms:

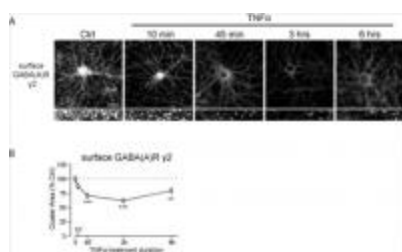
CAE2; ECA2; GEFSP3

Note:

This antibody was tested in live cell imaging. Please see IF/ICC data for detail.

Product images:


Western blot analysis of rat brain membranes: 1. Anti-GABA(A) γ 2 Receptor (extracellular) antibody, (1:200). 2. Anti-GABA(A) γ 2 Receptor (extracellular) antibody, preincubated with the control peptide antigen.



ICC staining of rat living hippocampal neurons. A. Extracellular staining of cells using Anti-GABA(A)gamma 2 Receptor (extracellular) antibody, (1:100). Representative images from time course experiments with cultured neurons undergoing TNF- α treatment ranging from 10 min to 6 h in duration.