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Product datasheet for TA328817

Gabrg1 Rabbit Polyclonal Antibody

Product data:

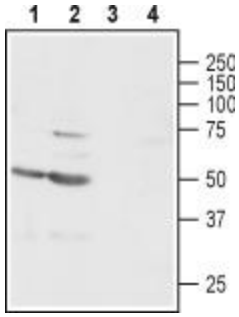
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)HAGSTLIPMNNISMPQGE, corresponding to amino acid residues 382-399 of rat GABA(A)?1 Receptor. Intracellular, C-terminus.
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% NaN3.
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 1 subunit
Database Link:	NP_542153 Entrez Gene 14405 MouseEntrez Gene 140674 Rat P23574

View online »

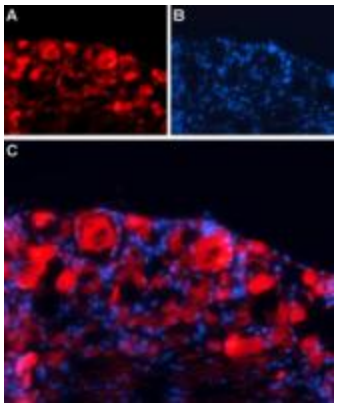
Background: The neurotransmitter GABA (?-aminobutyric acid) inhibits the activity of signal-receiving neurons by interacting with the GABAA receptor on these cells. There are two major types of GABA receptors: the ionotropic GABAA (GABAA R) and the metabotropic GABAB receptors. GABAA R belongs to the ligand gated ion channel superfamily.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.They are composed of heteropentamer, with all of the five subunits contributing to the pore formation. To date, eight subunit isoforms have been cloned: a, Ã?, ?, d, e, p, ?, and ?. The native GABAA receptor, in most cases, consists of 2a, 2Ã? and 1? subunit. Three ? subunits genes have been identified in mammals.mRNA of the ?1 subunit is detected in the amygdala and septum.

Synonyms: DKFZp686H2042; MGC33838

Product images:



Western blot analysis of rat brain (lanes 1 and 3) and mouse brain (lanes 2 and 4) lysates: 1. Anti-GABA(A) ?1 Receptor antibody, (1:500). 2. Anti-GABA(A) ?1 Receptor antibody, preincubated with the control peptide antigen.



Expression of GABA(A) ?1 Receptor in rat DRG. Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-GABA(A) ?1 Receptor antibody, followed by goat anti-rabbit-AlexaFluor-594 secondary antibody. A. Staining (red) appears in neuronal cell bodies. B. Nuclear staining using DAPI as the counterstain. C. merged image of A and B.