

# **Product datasheet for TA328811**

## **Gabra6 Rabbit Polyclonal Antibody**

**Product data:** 

**Product Type: Primary Antibodies** 

**Applications:** IF, IHC, WB

Recommended Dilution: WB: 1:200-1:2000: IHC: 1:100-1:3000

Reactivity: Mouse, Rat

Rabbit Host:

Clonality: Polyclonal

Immunogen: Peptide QLEDEGNFYSENVSRILDN(C), corresponding to amino acid residues 20-37 of rat

GABA(A) a6 Receptor. Extracellullar, 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% NaN3.

Add 50 ul double distilled water (DDW) to the lyophilized powder. **Reconstitution Method:** 

**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 alpha 6 subunit

**Database Link:** NP 068613

Entrez Gene 14399 MouseEntrez Gene 29708 Rat

P30191



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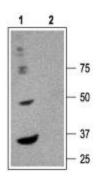


#### Background:

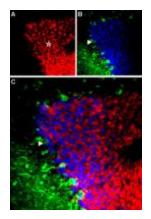
GABA (?-aminobutyric acid) is the major inhibitory neurotransmitter in the brain. Its production, release, reuptake and metabolism occur in the nervous system. The GABA transmitter interacts with two major types of receptors: ionotropic GABA(A) and the metabotropic GABA(B) receptors. The GABA(A) receptor belongs to the ligand gated ion channel superfamily. The GABA(A) R, is a heteropentamer, with all of its five subunits contributing to the pore formation. To date, eight subunit isoforms were cloned: a,  $\tilde{A}$ ?, ?, d, e, p, ?, and ?. Six a subunit isoforms were described to exist in mammals (a1-a6). The native GABA(A) receptor, in most cases, consists of 2a,  $2\tilde{A}$ ? and 1? subunit. The a subunit is the most common subunit and is expressed ubiquitously. It determines the affinities for allosteric ligands shown by GABA(A)R. A possible role for the GABA(A) receptors in alcohol action has been derived from animal studies, in vitro cell models and human research which suggested an important role for GABA(A) a6 along with  $\tilde{A}$ ?2, a1 and ?2, in alcohol related phenotypes.In Canavan disease (inherited leukodystrophy), low level of expression of GABA(A) a6 was reported.

**Synonyms:** MGC116903; MGC116904

### **Product images:**

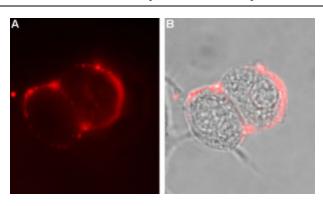


Western blot analysis of rat brain membranes: 1. Anti-GABA(A) a6 Receptor (extracellular) antibody, (1:200). 2. Anti-GABA(A) a6 Receptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of GABA(A) a6 Receptor in mouse cerebellum. Immunohistochemical staining of mouse cerebellum using Anti-GABA(A) a6 Receptor (extracellular) antibody. A. GABA(A) a6 Receptor (red) appears in the granule layer (asterisk). B. Parvalbumin (green) appears in Purkinje cells and in the molecular layer. C. Merge of GABA(A) a6 Receptor and parvalbumin indicates that GABA(A) a6 Receptor is restricted to granule cells. DAPI is used as the counterstain (blue).





Expression of GABA(A) a6 receptor in rat PC12 cells. Immunocytochemical staining of intact living rat pheochromocytoma (PC12) cells. A. Extracellular staining of cells using Anti-GABA(A) a6 Receptor (extracellular) antibody, (1:100), (red). B. Merge of A with the live view of the cell.