

Product datasheet for **TA323565**

GABA A Receptor alpha 3 (GABRA3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around aa. 33~37(R-R-Q-E-P)derived from Rat GABA A Receptor a3.
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	gamma-aminobutyric acid type A receptor alpha3 subunit
Database Link:	NP_000799 Entrez Gene 14396 MouseEntrez Gene 24947 RatEntrez Gene 2556 Human P34903



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Background:

GABA (γ -aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor. The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion channels that produce fast inhibitory synaptic transmission. In contrast, the metabotropic GABA(B) receptor is coupled to G proteins that modulate slow inhibitory synaptic transmission. Functional GABA(B) receptors form heterodimers of GABA(B)R1 and GABA(B)R2 where GABA(B)R1 binds the ligand and GABA(B)R2 is the primary G protein contact site. Two isoforms of GABA(B)R1 have been cloned: GABA(B)R1a is a 130 kD protein and GABA(B)R1b is a 95 kD protein. G proteins subsequently inhibit adenyl cyclase activity and modulate inositol phospholipid hydrolysis. GABA(B) receptors have both pre- and postsynaptic inhibitions: presynaptic GABA(B) receptors inhibit neurotransmitter release through suppression of high threshold calcium channels, while postsynaptic GABA(B) receptors inhibit through coupled activation of inwardly rectifying potassium channels. In addition to synaptic inhibition, GABA(B) receptors may also be involved in hippocampal long-term potentiation, slow wave sleep and muscle relaxation.

Synonyms:

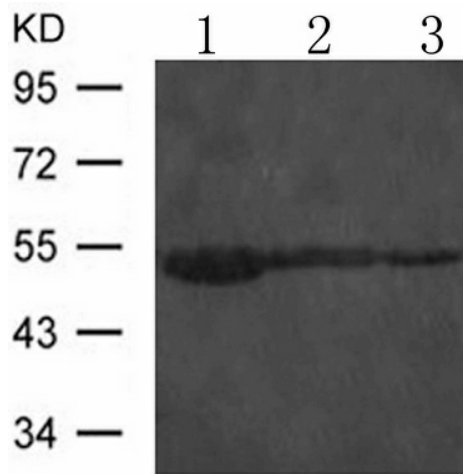
MGC33793

Protein Families:

Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways:

Neuroactive ligand-receptor interaction

Product images:

Predicted band size: 55 kDa. Positive control: Rat brain and mouse brain tissue and C6 cells lysate. Recommended dilution: 1/ 500-1000. (Gel: 10%SDS-PAGE Lane 1, 2, 3: Rat brain and mouse brain tissue and C6 cells lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)