

**Gabra6 (mouse) Antibody (internal region, near C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3573a****Specification**

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**Gabra6 (mouse) Antibody (internal region, near C-Term) - Product Information**

Application	E
Primary Accession	<a href="#">Q16445</a>
Other Accession	<a href="#">NP_001093111.1</a> , <a href="#">NP_032094.2</a> , <a href="#">2559</a> , <a href="#">14399</a> (mouse), <a href="#">29708</a> (rat)
Predicted Host	Human, Mouse, Rat, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	51024

**Gabra6 (mouse) Antibody (internal region, near C-Term) - Additional Information****Gene ID** 2559**Other Names**

Gamma-aminobutyric acid receptor subunit alpha-6, GABA(A) receptor subunit alpha-6, GABRA6

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Gabra6 (mouse) Antibody (internal region, near C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Gabra6 (mouse) Antibody (internal region, near C-Term) - Protein Information****Name** GABRA6 ([HGNC:4080](#))**Function**

Alpha subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:<a href="http://www.uniprot.org/citations/8632757" target="\_blank">8632757</a>). GABA-gated chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits arranged around a central pore and contain GABA active binding site(s) located at the alpha and beta subunit interface(s) (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (By similarity).

Alpha-6/GABRA6 subunits are found at both synaptic and extrasynaptic sites (PubMed:<a href="http://www.uniprot.org/citations/8632757" target="\_blank">8632757</a>). Chloride influx into the postsynaptic neuron following GABAAR opening decreases the neuron ability to generate a new action potential, thereby reducing nerve transmission (By similarity). Extrasynaptic alpha-6-containing receptors contribute to the tonic GABAergic inhibition. Alpha-6 subunits are also present on glutamatergic synapses (By similarity).

**Cellular Location**

Postsynaptic cell membrane {ECO:0000250|UniProtKB:P30191}; Multi-pass membrane protein.  
Cell membrane {ECO:0000250|UniProtKB:P30191}; Multi-pass membrane protein

**Tissue Location**

Expressed in brain, in cerebellar granule cells.

**Gabra6 (mouse) Antibody (internal region, near C-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Gabra6 (mouse) Antibody (internal region, near C-Term) - Images****Gabra6 (mouse) Antibody (internal region, near C-Term) - Background**

This antibody is expected to recognize both reported isoforms (NP\_001093111.1; NP\_032094.2).

**Gabra6 (mouse) Antibody (internal region, near C-Term) - References**

Variation at the GABAA receptor gene, Rho 1 (GABRR1) associated with susceptibility to bipolar schizoaffective disorder. Green EK, Grozeva D, Moskvina V, Hamshere ML, Jones IR, Jones L, Forty L, Caesar S, Gordon-Smith K, Fraser C, Russell E, St Clair D, Young AH, Ferrier N, Farmer A, McGuffin P, Holmans PA, Owen MJ, O'Donovan MC, Craddock N. Am J Med Genet B Neuropsychiatr Genet. 2010 Oct 5;153B(7):1347-9. PMID: 20583128