

# GABRE antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI10822

## Product Information

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Application	WB
Primary Accession	<a href="#">P78334</a>
Other Accession	<a href="#">NM_021984</a> , <a href="#">NP_068819</a>
Reactivity	Human, Mouse, Rat, Rabbit
Predicted	Human, Mouse, Rat, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57972

## Additional Information

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Gene ID	2564
Other Names	Gamma-aminobutyric acid receptor subunit epsilon, GABA(A) receptor subunit epsilon, GABRE
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-GABRE antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	GABRE antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	GABRE ( <a href="#">HGNC:4085</a> )
Function	Epsilon subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed: <a href="#">16412217</a> , PubMed: <a href="#">9882711</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 interfaces (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (By similarity). GABAARs containing epsilon subunits also permit spontaneous chloride channel activity while preserving the structural information required for GABA-gated openings (PubMed: <a href="#">16412217</a> , PubMed: <a href="#">9882711</a> ). GABAARs

containing epsilon subunit may regulate cardiac function (Probable).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed in many tissues (PubMed:9339354). Highest levels of expression in adult heart and placenta (PubMed:9084408, PubMed:9339354, PubMed:9882711).

## References

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Sinkkonen, S. T., et al., (2000) J. Neurosci. 20 (10), 3588-3595 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. Publications: Hengen, K. B., Gomez, T. M., Stang, K. M., Johnson, S. M. & Behan, M. Changes in ventral respiratory column GABA<sub>A</sub>  $\epsilon$ - and  $\delta$ -subunits during hibernation mediate resistance to depression by EtOH and pentobarbital. Am. J. Physiol. Regul. Integr. Comp. Physiol. 300, R272-83 (2011). WB, IHC, IP, Human, Rat, Rabbit, Mouse, Guinea pig 21084677 Hengen, K. B. et al. Increased GABA(A) receptor  $\epsilon$ -subunit expression on ventral respiratory column neurons protects breathing during pregnancy. PLoS One 7, e30608 (2012). WB, IHC, IP, Human, Rat, Rabbit, Mouse, Guinea pig 22303446 Fatemi, S. H., Folsom, T. D., Rooney, R. J. & Thuras, P. D. Expression of GABA<sub>A</sub> - $\alpha$ 2-,  $\beta$ 1- and  $\epsilon$ -receptors are altered significantly in the lateral cerebellum of subjects with schizophrenia, major depression and bipolar disorder. Transl. Psychiatry 3, e303 (2013). WB, IHC, IP, Human, Rat, Rabbit, Mouse, Guinea pig 24022508

## Images

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WB Suggested Anti-GABRE Antibody Titration: 0.2-1  $\mu$ g/ml  
ELISA Titer: 1:312500  
Positive Control: Human Placenta

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.