

# Gabra5 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI10190

## Product Information

Application	WB
Primary Accession	<a href="#">Q8BHJ7</a>
Other Accession	<a href="#">NM_176942</a> , <a href="#">NP_795916</a>
Reactivity	Human, Mouse, Rat, Pig, Dog, Horse, Bovine
Predicted	Human, Pig, Chicken, Dog, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52274

## Additional Information

Gene ID	110886
Alias Symbol	A230018I05Rik
Other Names	Gamma-aminobutyric acid receptor subunit alpha-5, GABA(A) receptor subunit alpha-5, Gabra5
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-Gabra5 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	Gabra5 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Name	Gabra5 {ECO:0000312   MGI:MGI:95617}
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="#">14993607</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). GABAARs containing alpha-5/GABRA5 are mainly extrasynaptic and contribute to the tonic GABAergic inhibition of the hippocampus (PubMed: <a href="#">14993607</a> ). Extrasynaptic

alpha-5-containing GABAARs in CA1 pyramidal neurons play a role in learning and memory processes (PubMed:[14993607](#)).

#### Cellular Location

Postsynaptic cell membrane {ECO:0000250|UniProtKB:P31644}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P31644}. Cell membrane {ECO:0000250|UniProtKB:P31644}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P31644}

#### Tissue Location

Expressed in brain, in hippocampal pyramidal neurons.

## Images

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WB Suggested Anti-Gabra5 Antibody

Titration: 1. µg/ml

Positive Control: Mouse liver

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