10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GABA A Receptor alpha 5 Rabbit mAb

Catalog # AP77114

Product Information

Application	WB, IF, ICC
Primary Accession	P31644
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human GABA A Receptor alpha 5
Purification	Affinity Chromatography
Calculated MW	52146

Additional Information

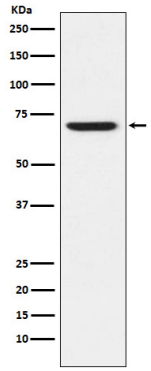
Gene ID	2558
Other Names	GABRA5
Dilution	WB~~1/500-1/1000 IF~~1:50~200 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	GABRA5 (HGNC:4079)
Function	Alpha subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:14993607, PubMed:29961870, PubMed:30140029, PubMed:31056671). 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) (PubMed:30140029). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:14993607, PubMed:30140029). GABAARs containing alpha-5/GABRA5 subunits are mainly extrasynaptic and contribute to the tonic GABAergic inhibition in the hippocampus (By similarity). Extrasynaptic alpha-5- containing GABAARs in CA1 pyramidal neurons play a role in learning and memory processes (By similarity).

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

Images



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