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Anti-GABA A Receptor alpha 5 Rabbit Monoclonal Antibody

Catalog # ABO15291

Product Information

Application	WB, IF, ICC
Primary Accession	P31644
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-GABA A Receptor alpha 5 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	2558
Other Names	Gamma-aminobutyric acid receptor subunit alpha-5, GABA(A) receptor subunit alpha-5, GABAAR subunit alpha-5, GABRA5 (HGNC:4079)
Calculated MW	52146
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 18G67
Immunogen	A synthesized peptide derived from human GABA A Receptor alpha 5
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

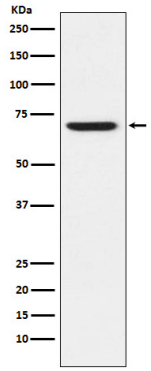
Name	GABRA5 (HGNC:4079)
Function	Alpha subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in

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).

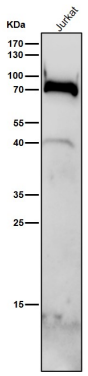
Cellular Location

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

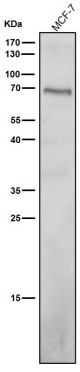
Images



Western blot analysis of GABA A Receptor alpha 5 expression in 293T cell lysate.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



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