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GABA A Receptor beta 1 Antibody

Rabbit mAb
Catalog # AP91689

Product Information

Application	WB
Primary Accession	P18505
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	GABA-A receptor, beta-1 polypeptide; Gabrb-1; GABRB1; GARB1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	54235

Additional Information

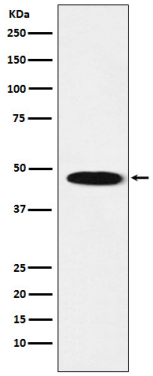
Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human GABA A Receptor beta 1
Description	GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	GABRB1 (HGNC:4081)
Function	Beta subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:10449790, PubMed:16412217, PubMed:26950270). GABA-gated chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits arranged around a central pore and contain one or two GABA active binding sites located at the alpha and beta subunit interfaces, depending on subunit composition (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:10449790, PubMed:16412217, PubMed:26950270). Chloride influx into the postsynaptic neuron following GABAAR opening decreases the neuron ability to generate a new action potential, thereby reducing nerve transmission (PubMed:16412217, PubMed:26950270). Beta-containing GABAARs can simultaneously bind GABA and histamine where histamine binds at the interface of two neighboring beta subunits, which may be involved in the regulation of sleep and wakefulness (By similarity).

Cellular Location	Postsynaptic cell membrane {ECO:0000250|UniProtKB:P08220}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P08220}. Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P08220}

Images



Western blot analysis of GABA A Receptor beta 1 expression in Human cerebellum lysate.