

GABAA R α 6 Polyclonal Antibody

Catalog # AP70006

Product Information

Application	WB, E
Primary Accession	Q16445
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51024

Additional Information

Gene ID	2559
Other Names	GABRA6; Gamma-aminobutyric acid receptor subunit alpha-6; GABA(A) receptor subunit alpha-6
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	GABRA6 (HGNC:4080)
Function	Alpha subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:8632757). 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). Alpha-6/GABRA6 subunits are found at both synaptic and extrasynaptic sites (PubMed:8632757). Chloride influx into the postsynaptic neuron following GABAAR opening decreases the neuron ability to generate a new action potential, thereby reducing nerve transmission (By similarity). Extrasynaptic alpha-6-containing receptors contribute to the tonic GABAergic inhibition. Alpha-6 subunits are also present on glutamatergic synapses (By similarity).
Cellular Location	Postsynaptic cell membrane {ECO:0000250 UniProtKB:P30191}; Multi-pass membrane protein. Cell membrane {ECO:0000250 UniProtKB:P30191};

Multi-pass membrane protein

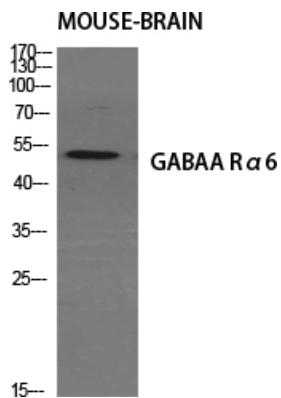
Tissue Location

Expressed in brain, in cerebellar granule cells.

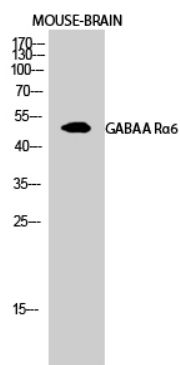
Background

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.

Images



Western Blot analysis of various cells using GABAA R α 6 Polyclonal Antibody diluted at 1 : 500



Western Blot analysis of MOUSE-BRAIN cells using GABAA R α 6 Polyclonal Antibody diluted at 1 : 500

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