

GABAA Rβ1 (phospho Ser434) Polyclonal Antibody

Catalog # AP67508

Specification

GABAA R_β1 (phospho Ser434) Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality WB, IHC-P <u>P18505</u> Human, Mouse, Rat, Monkey Rabbit Polyclonal

GABAA R_β1 (phospho Ser434) Polyclonal Antibody - Additional Information

Gene ID 2560

Other Names GABRB1; Gamma-aminobutyric acid receptor subunit beta-1; GABA(A) receptor subunit beta-1

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions -20°C

GABAA R_β1 (phospho Ser434) Polyclonal Antibody - 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:10449790, 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:<a href="http://www.uniprot.org/citations/16412217"

target="_blank">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}

GABAA Rβ1 (phospho Ser434) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

GABAA Rβ1 (phospho Ser434) Polyclonal Antibody - Images







GABAA Rβ1 (phospho Ser434) Polyclonal Antibody - Background

Component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the vertebrate brain. Functions also as histamine receptor and mediates cellular responses to histamine. Functions as receptor for diazepines and various anesthetics, such as pentobarbital; these are bound at a separate allosteric effector binding site. Functions as ligand- gated chloride channel.