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anti-GABRB3 antibody (Cytoplasmic Loop)

2 Images



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Overview	
Quantity:	100 μL
Target:	GABRB3
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Immunogen: Anti-GABA(A) Receptor beta 3 Antibody was produced by repeated immunizations with recombinant fusion protein from the cytoplasmic loop of the beta 3 subunit. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Cross reactivity with GABA(A) Receptor beta 3 from other species has not been determined.
Purification:	Anti-GABA(A) Receptor beta 3 Antibody is directed against rat GABA(A) Receptor beta 3. The

antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Reactivity is expected from the following species based on 100% sequence homology: mouse.

Target Details

Restrictions:

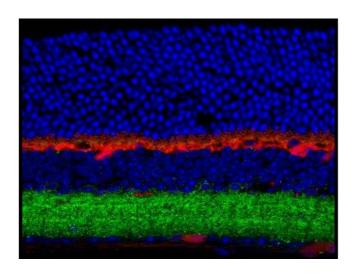
Target:	GABRB3
Alternative Name:	GABA(A) Receptor beta 3 (GABRB3 Products)
Background:	Synonyms: Gamma-aminobutyric acid receptor subunit beta-3, GABA(A) receptor subunit beta-
	3, Gabrb3
	Background: Anti-GABA(A) Receptor beta 3 Antibody detects GABA(A) Receptor beta 3.
	Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central
	nervous system, causing a hyperpolarization of the membrane through the opening of a Cl-
	channel associated with the GABAA receptor (GABAA-R) subtype. GABAA-Rs are important
	therapeutic targets for a range of sedative, anxiolytic, and hypnotic agents and are implicated in
	several diseases including epilepsy, anxiety, depression, and substance abuse. The GABAA-R is
	a multimeric subunit complex. To date six $\alpha s,$ four βs and four $\gamma s,$ plus alternative splicing
	variants of some of these subunits, have been identified. Injection in oocytes or mammalian cel
	lines of cRNA coding for $\alpha\text{-}$ and $\beta\text{-}\text{subunits}$ results in the expression of functional GABAA-Rs
	sensitive to GABA. However, coexpression of a y-subunit is required for benzodiazepine
	modulation. The various effects of the benzodiazepines in brain may also be mediated via
	different $\alpha\text{-subunits}$ of the receptor. GABA(A) receptor beta 3 antibody is ideal for investigators
	involved in Neuroscience.
	Gene Name: GABRB3
Gene ID:	24922
NCBI Accession:	NP_058761
UniProt:	P63079
Pathways:	Sensory Perception of Sound
Application Details	
Application Notes:	Immunohistochemistry Dilution: User Optimized
	Application Note: Anti-GABA(A) Receptor beta 3 (Rabbit) antibody suitable for use in Western
	Blotting and Immunohistochemistry. Specific conditions for reactivity should be optimized by
	the end user. Expect a band of approximately 53 kDa in size corresponding to the beta 3
	subunit of GABA A receptor in the appropriate cell lysate or extract.
	Western Blot Dilution: 1:1000

For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

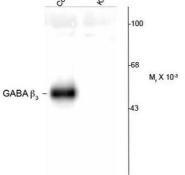
Images



Immunohistochemistry

Image 1. Immunohistochemistry of Anti-GABA(A) Receptor beta 3 (Rabbit) Antibody Immunohistochemistry of Anti-GABA(A) Receptor beta 3 (Rabbit) Antibody. Tissue: mouse retina. Labeling: GABA(A) Receptor beta 3 subunit in green, calbindin in red, and DNA in blue.





Western blot of 5-7 μ g of mouse cerebellum lysates from wild type (control) and β_3 knockout (β_3 K/O) animals showing specific immunolabeling of the ~53k β_3 subunit of the GABA_{λ}-R in the wild type but not in the β_3 K/O animals.

Western Blotting

Image 2. Western blot of GABAA Receptor β3 Antibody Western Blot of Rabbit anti-GABAA Receptor β3 Antibody. Lane 1: mouse cerebellum lysates from wild type. Lane 2: mouse cerebellum lysates from β3 knockout (β3 K/O). Load: 5-7 μg per lane. Primary antibody: GABAA-R antibody at 1:400 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: $\sim 53kDa/\sim 53kDa$ for β3-subunit of the GABAA-R in the wild type. Other band(s): none.