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Datasheet for ABIN361447 anti-GABRB2 antibody (Cytoplasmic Loop)

2 Images

1 Publication



Overview

Quantity:	100 µL
Target:	GABRB2
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRB2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Fusion protein from the cytoplasmic loop of the beta 2 subunit
Specificity:	Specific for the ${\sim}55k$ ß2-subunit of the GABAA receptor in Western blots.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	canine, human, non-human primate
Purification:	Antigen Affinity Purified

Target Details

Target:	GABRB2
Alternative Name:	GABRB2 (GABRB2 Products)
Background:	Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central

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	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 (s, four (s and four (s, plus alternative splicing
	variants of some of these subunits, have been identified (Olsen and Tobin, 1990, Whiting et al.,
	1999, Ogris et al., 2004). Injection in oocytes or mammalian cell lines of cRNA coding for (- and
	(-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However,
	coexpression of a (-subunit is required for benzodiazepine modulation. The various effects of
	the benzodiazepines in brain may also be mediated via different (-subunits of the receptor
	(McKernan et al., 2000, Mehta and Ticku, 1998, Ogris et al., 2004, Pöltl et al., 2003). Anti-GABAA-
	Receptor, (2-Subunit Western blot of 7 (g of rat cerebellum (Cb) showing specific
	immunolabeling of the \sim 55k ß2-subunit of the GABAA-R.
Molecular Weight:	'55 kDa
Gene ID:	25451

Pathways: Sensory Perception of Sound, Synaptic Membrane

P63138

Application Details

UniProt:

Application Notes:	Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Format:	Liquid
Buffer:	100 μL in 10 mM HEPES ($$ pH 7.5), 150 mM NaCl, 100 μg per ml BSA and 50 % glycerol.
Storage:	-20 °C

Publications

Product cited in: Antflick, Hampson: "Modulation of glutamate release from parallel fibers by mGlu4 and presynaptic GABA(A) receptors." in: **Journal of neurochemistry**, Vol. 120, Issue 4, pp. 552-63, (2012) (PubMed).



Western Blotting

Image 1. Western blots of 7 (g of rat cerebellum (Cb) showing specific immunolabeling of the \sim 55k B2-subunit of the GABAA-R.

Western Blotting

Image 2. Western blot of 7 μ g of rat cerebellar lysate showing specific immunolabeling of the ~55 kDa β 2-subunit of the GABAA-R.

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