Datasheet for ABIN361447

anti-GABRB2 antibody (Cytoplasmic Loop)

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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 ~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

Target Details

	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 ~55k ß2-subunit of the GABAA-R.
Molecular Weight:	'55 kDa
Gene ID:	25451
UniProt:	P63138
Pathways:	Sensory Perception of Sound, Synaptic Membrane

Application Details

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

Handling

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

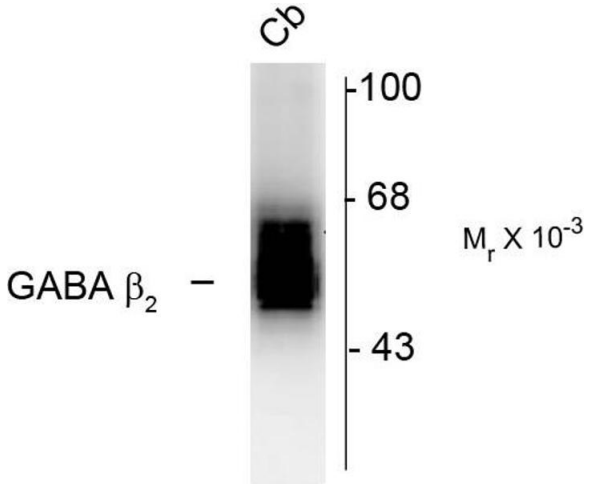
Product cited in:	Allan, Storey: "Expression of NF-?B and downstream antioxidant genes in skeletal muscle of hibernating ground squirrels, Spermophilus tridecemlineatus." in: **Cell biochemistry and function**, Vol. 30, Issue 2, pp. 166-74, (2012) (PubMed).

Publications

Ishii, Kunihiro, Tanaka, Hatano, Nishikata: "Cytosolic subunits of ATP synthase are localized to the cortical endoplasmic reticulum-rich domain of the ascidian egg myoplasm." in: **Development, growth & differentiation**, Vol. 54, Issue 8, pp. 753-66, (2012) (PubMed).

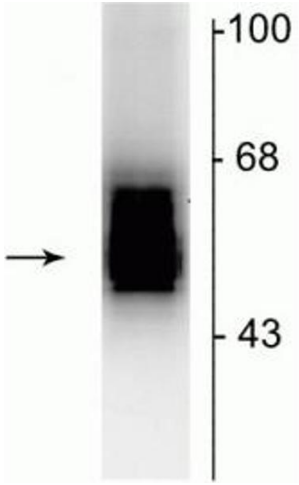
Wu, Hsiao, Chien, Lai: "Ischemic conditioning by short periods of reperfusion attenuates renal ischemia/reperfusion induced apoptosis and autophagy in the rat." in: **Journal of biomedical science**, Vol. 16, pp. 19, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blots of 7 (g of rat cerebellum (Cb) showing specific immunolabeling of the ~55k ß2-subunit of the GABAA-R.



Western Blotting

Image 2. Western blot of 7 µg of rat cerebellar lysate showing specific immunolabeling of the ~55 kDa β2-subunit of the GABAA-R.