Datasheet for ABIN361444

anti-GABRA6 antibody (Cytoplasmic Loop)

2 Images

Overview

Quantity:	100 µL
Target:	GABRA6
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA6 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Fusion protein from the cytoplasmic loop of the alpha 6 subunit
Specificity:	Specific for the ~57k a6-subunit of the GABAA receptor in Western blots. Labeling is absent in a6-subunit knockout animals.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Purification:	Antigen Affinity Purified

Target Details

Target:	GABRA6
Alternative Name:	GABRA6 (GABRA6 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, P ltl et al., 2003). Anti-GABAA Receptor, a6-Subunit Western blot of mouse forebrain lysates from Wild Type (Control) and 6-knockout (6-K/O) animals showing specific immunolabeling of the ~57k a6-subunit of the GABAA-R. The labeling was absent from a lysate prepared from 6-knockout animals.

Molecular Weight:	'57 kDa
Gene ID:	29708
UniProt:	P30191
Pathways:	Synaptic Membrane

Application Details

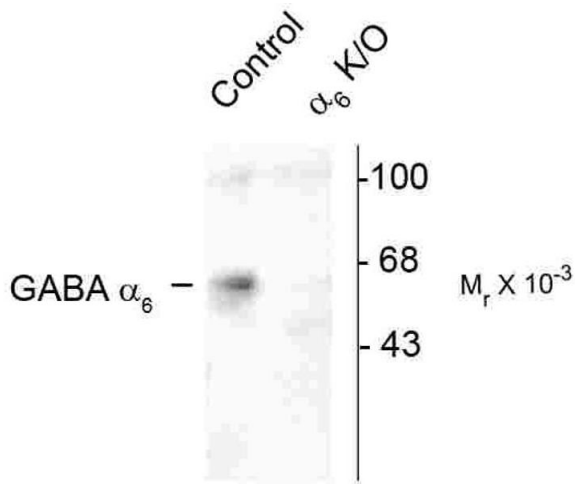| Application Notes:	Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

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

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Western Blotting

Image 1. Western blots of mouse forebrain lysates from Wild Type (Control) and 6-knockout (6-K/O) animals showing specific immunolabeling of the ~57k a6-subunit of the GABAA-R. The labeling was absent from a lysate prepared from 6-knockout animals.
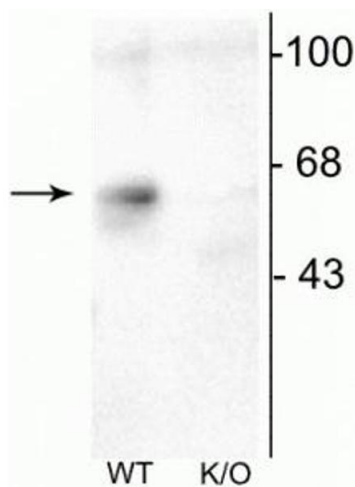
Western Blotting

Image 2. Western blot of mouse forebrain lysates from Wild Type (WT) and α6-knockout (K/O) animals showing specific immunolabeling of the ~57 kDa α6-subunit of the GABAA-R. The labeling was absent from a lysate prepared from α6-knockout animals.