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Datasheet for ABIN361437

anti-GABRA3 antibody (N-Term)

3 Images

Overview

Quantity:	100 µL
Target:	GABRA3
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide from the N-terminal region of the alpha 3 subunit
Specificity:	Specific for the ~51k a3-subunit of the GABAA receptor in Western blots. Labeling is absent in a3-subunit knockout animals.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	bovine, canine, human, non-human primates, Zebrafish
Purification:	Antigen Affinity Purified

Target Details

Target:	GABRA3
Alternative Name:	GABRA3 (GABRA3 Products)

Target Details

Background: 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 alphas, four betas and four gammas, 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 alpha- and gamma-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However, coexpression of a δ -subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different α -subunits of the receptor (McKernan et al., 2000, Mehta and Ticku, 1998, Ogris et al., 2004, Ptl et al., 2003). Anti-GABAA-Receptor, δ -Subunit Western blot of mouse brain lysates from wild type (Control) and δ -knockout (δ K/O) animals showing specific immunolabeling of the ~51k δ -subunit of the GABAA-R. The labeling was absent from a lysate prepared from δ -knockout animals.

Molecular Weight: 51 kDa

Gene ID: 24947

UniProt: [P20236](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.

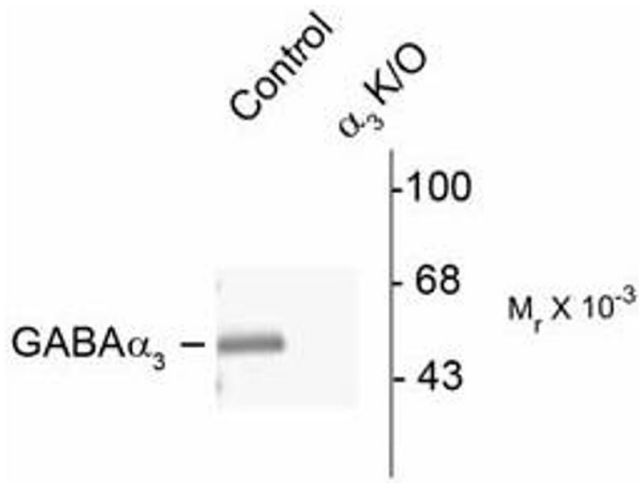
Restrictions: For Research Use only

Handling

Format: Liquid

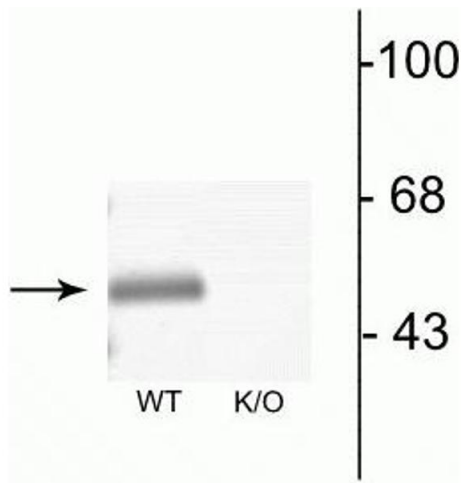
Buffer: 100 μ L in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g per ml BSA and 50 % glycerol.

Storage: -20 °C



Western Blotting

Image 1. Western blots of mouse brain lysates from wild type (Control) and α_3 -knockout (α_3 K/O) animals showing specific immunolabeling of the ~51k α_3 -subunit of the GABAA-R. The labeling was absent from a lysate prepared from α_3 -knockout animals.



Western Blotting

Image 2. Western blot of mouse brain lysates from wild type (WT) and α_3 -knockout (K/O) animals showing specific immunolabeling of the ~51 kDa α_3 -subunit of the GABAA-R. The labeling was absent from a lysate prepared from α_3 -knockout animals.



Immunostaining

Image 3. Immunostaining of rat amygdala showing labeling of GABAA α_3 subunit.