

Datasheet for ABIN372635

anti-GABRA6 antibody (Cytoplasmic Loop)



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1 Image

Overview

Quantity:	0.1 mL
Target:	GABRA6
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Human, Rat, Mouse, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA6 antibody is un-conjugated
Application:	Western Blotting (WB), Dot Blot (DB)

Product Details

Immunogen:	Fusion protein from the cytoplasmic loop of the Alpha-6 subunit of Rat GABAA Receptor.
Isotype:	IgG
Specificity:	Specific for the ~57k Alpha-6 subunit of the GABAA Receptor in Western blots of Rat brain membrane fractions. Also recognizes the alpha-6 subunit of GABAA-R in Bovine, Human and Mouse brain extracts. Does not recognize GABAA-R subunits as reactivity is eliminated in alpha-6 knockout brain.
Purification:	Affinity Chromatography.

Target Details

Target:	GABRA6
Alternative Name:	GABAA Receptor alpha 6 (GABRA6 Products)

Target Details

Background:	Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system. There are two major classes of GABA receptors: the GABAA and the GABAB subtype of receptors. 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 sub-stance abuse. The GABAA-R is a multimeric subunit complex. To date six Alpha's, four Beta's and four Gamma'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 Alpha- and beta-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However, coexpression of a Gamma-subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different Alpha-subunits of the receptor (McKernan et al., 2000, Mehta and Ticku, 1998, Ogris et al., 2004, Pörtl et al., 2003).Synonyms: GABRA-6, GABRA6, Gamma-Aminobutyric Acid Receptor subunit Alpha-6
Gene ID:	29708
NCBI Accession:	NP_068613
UniProt:	P30191
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Western Blot: 1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50 % Glycerol.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody undiluted (in aliquots) at -20 °C.

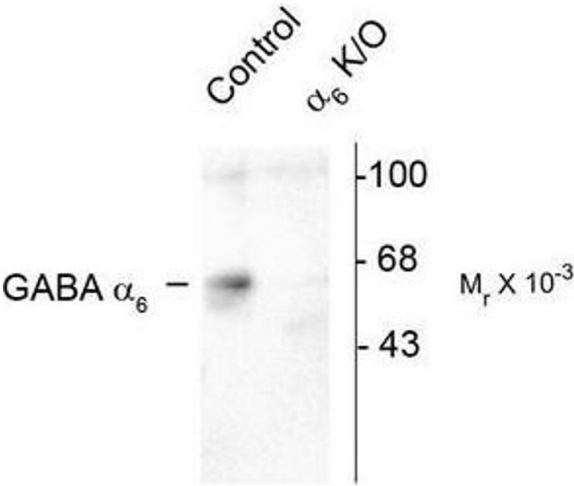


Image 1.