

ARG52293
anti-GABAA Receptor alpha 6 antibodyPackage: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GABAA Receptor alpha 6
Tested Reactivity	Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GABAA Receptor alpha 6
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues specific to the alpha 6 subunit conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	A ₆ ; Gamma-aminobutyric acid receptor subunit alpha-6; GABA

Application Instructions

Application table	Application	Dilution
	WB	1:1,000
Application Note	Labels the ~57k α6-subunit of the GABAA receptor in Western blots of Rat brain extracts. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Neat Serum
Buffer	Neat serum
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 14399 Mouse
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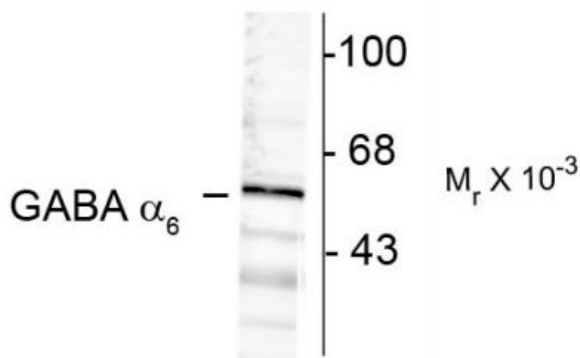
[GeneID: 29708 Rat](#)

[Swiss-port # P16305 Mouse](#)

[Swiss-port # P30191 Rat](#)

Gene Symbol	GABRA6
Gene Full Name	gamma-aminobutyric acid (GABA) A receptor, alpha 6
Background	<p>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 αs, four βs and four γs, 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 α- and β-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However, coexpression of a γ-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; Pörtl et al., 2003). Lastly, phosphorylation of β-subunits of the receptor has been shown to modulate GABAA-R function (Brandon et al., 2003).</p>
Research Area	Neuroscience antibody
Calculated Mw	51 kDa

Images



ARG52293 anti-GABAA Receptor alpha 6 antibody WB image

Western blot: rat cortex lysate stained with ARG52293 anti-GABAA Receptor alpha 6 antibody showing immunolabeling of the ~57k α_6 -subunit of the GABAA-R.