

Datasheet for ABIN372642

anti-GABRG2 antibody (pSer327)



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1 Image

Overview

Quantity:	0.1 mL
Target:	GABRG2
Binding Specificity:	pSer327
Reactivity:	Human, Mouse, Rat, Cow, Dog, Chicken, Non-Human Primate
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRG2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser327 of the GABAA Receptor, Gamma2 subunit.
Isotype:	IgG
Specificity:	Specific for ~45k GABAA Receptor Gamma2 subunit phosphorylated at Ser327. Immunolabeling of the GABAA band is completely blocked by Lambda-phosphatase treatment.
Cross-Reactivity (Details):	Species reactivity (expected): Human, Bovine, Canine, Chicken, Mouse and non-Human Primates. Species reactivity (tested): Rat.
Purification:	Sequential Chromatography on phospho- and dephospho-peptide affinity columns.

Target Details

Target:	GABRG2
Alternative Name:	GABRG2 (GABRG2 Products)
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. It has recently been suggested that PKC-epsilon regulates the sensitivity of GABAA Alpha1/Beta2/Gamma2 receptors to ethanol and benzodiazepines through phosphorylation of serine 327 in the large intracellular loop of Gamma2 (Qi et al., 2007) Synonyms: GABA A Receptor subunit gamma-2, GABRG-2, Gamma-aminobutyric acid receptor subunit gamma-2
Gene ID:	29709
NCBI Accession:	NP_899156
UniProt:	P18508

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

Handling

Storage Comment: Store the antibody undiluted (in aliquots) at -20 °C.

Images

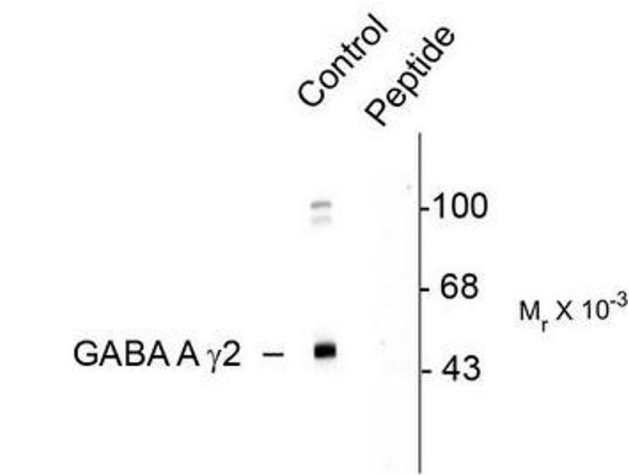


Image 1.