

Product datasheet

info@arigobio.com

ARG52303 anti-GABAA Receptor gamma 2 phospho (Ser327) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes GABAA Receptor gamma 2 phospho (Ser327)

Tested Reactivity Rat
Tested Application WB
Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name GABAA Receptor gamma 2

Species Rat

Immunogen Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser327 conjugated to

KLH

Conjugation Un-conjugated

Alternate Names A; CAE2; ECA2; GEFSP3; Gamma-aminobutyric acid receptor subunit gamma-2; GABA

Application Instructions

Application table	Application	Dilution
	WB	1:1,000
Application Note	Specific for $^{\sim}45k$ GABAA receptor $\gamma2$ subunit phosphorylated at Ser327. Immunolabeling of the GABAA band is completely blocked by λ -phosphatase treatment. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity Purified

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol

Stabilizer 0.1 mg/ml BSA, 50% Glycerol

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. 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: 29709 Rat

Swiss-port # P18508 Rat

Gene Symbol GABRG2

Gene Full Name gamma-aminobutyric acid (GABA) A receptor, gamma 2

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 substance abuse. The GABAA-R is a multimeric subunit complex. To date six α s, four β s and four γ 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 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. It has recently been suggested that PKCE regulates the sensitivity of GABAA α 1 β 2 γ 2 receptors to ethanol and benzodiazepines through

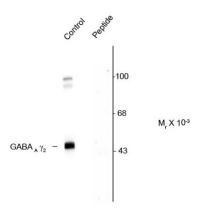
phosphorylation of serine 327 in the large intracellular loop of y2 (Qi et al., 2007)

Research Area Neuroscience antibody

Calculated Mw 54 kDa

PTM Palmitoylated by ZDHHC3/GODZ; which may affect presynaptic clustering and/or cell surface stability.

Images



ARG52303 anti-GABAA Receptor gamma 2 phospho (Ser327) antibody WB image

Western blot: Rat cortex showing specific immunolabeling of the $^{\sim}45~\text{kDa}$ GABA γ 2 protein phosphorylated at Ser327 (control) stained with ARG52303 anti-GABAA Receptor gamma 2 phospho (Ser327) antibody. Immunolabeling is blocked by the phosphopeptide (Peptide) used as antigen but not by the corresponding dephosphopeptide.