

Datasheet for ABIN6658228
anti-GABRG2 antibody (pSer327)



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1 Image

Overview

Quantity:	100 µL
Target:	GABRG2
Binding Specificity:	pSer327
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRG2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	GABA(A) Receptor gamma 2 phospho S327 Antibody
Immunogen:	Anti-GABA(A) Receptor gamma 2 pS327 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser327 of rat GABAA receptor gamma 2.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-GABA(A) Receptor gamma 2 pS327 Antibody is directed against rat phosphorylated GABA(A) Receptor gamma 2.
Purification:	The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	GABRG2
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Target Details

Alternative Name: GABA(A) Receptor gamma 2 ([GABRG2 Products](#))

Background: Synonyms: Gamma-aminobutyric acid receptor subunit gamma-2, GABA(A) receptor subunit gamma-2, Gabrg2

Background: Anti-GABA(A) Receptor gamma 2 pS327 Antibody detects phosphorylated GABA(A) Receptor gamma 2. 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 alphas, four betas and four gammas, plus alternative splicing variants of some of these subunits, have been identified. 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 ζ 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. GABA(A) Receptor gamma2 pS327 antibody is ideal for investigators involved in Neuroscience.

Gene Name: GABRG2

Gene ID: 29709, 8393403

UniProt: [P18508](#)

Application Details

Application Notes: Optional[Neutralization_Dilution]: 1:1000

Comment: Anti-GABA(A) Receptor gamma 2 pS327 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 45 kDa in size corresponding to GABA(A) receptor gamma 2 subunit phosphorylated at Ser327 in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol

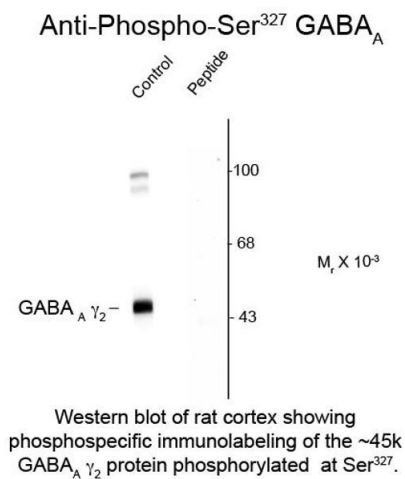
Handling

Storage: 4 °C, -20 °C

Storage Comment: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiry Date: 12 months

Images



Western Blotting

Image 1. Western Blot of Anti-GABA(A) Receptor gamma 2 pS327 (Rabbit) Antibody - 612-401-D52 Western Blot of Rabbit Anti-GABA(A) Receptor gamma 2 pS327 antibody. Lane 1: rat cortex. Lane 2: rat cortex blocked by the phospho-peptide. Load: 10 µg per lane. Primary antibody: GABAA-R antibody at 1:400 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~45kDa/~45kDa for GABAA γ 2 protein phosphorylated at Ser327. Other band(s): none.