

Datasheet for ABIN6658226  
**anti-GABRB3 antibody (pSer408, pSer409)**[Go to Product page](#)[1 Image](#)[1 Publication](#)

## Overview

Quantity:	100 µL
Target:	GABRB3
Binding Specificity:	pSer408, pSer409
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRB3 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Immunogen: Anti-GABA(A) Receptor beta 3 pS408/pS409 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser408/409. Immunogen Type: Peptide
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Purification:	Anti-GABA(A) Receptor beta 3 pS408/pS409 Antibody is directed against rat GABA(A) Receptor beta 3. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling of the GABAA band is completely blocked by the phospho-peptide used as antigen but not by the corresponding dephospho-peptide. Reactivity is expected from the following species based on 100% sequence homology: bovine, canine, chicken, human,

## Product Details

mouse, non-human primates, Xenopus and zebra fish.

## Target Details

Target:	GABRB3
Alternative Name:	GABA(A) Receptor beta 3 ( <a href="#">GABRB3 Products</a> )
Background:	<p>Synonyms: Gamma-aminobutyric acid receptor subunit beta-3, GABA(A) receptor subunit beta-3, Gabrb3, GABA(A) receptor subunit <math>\beta</math>-3</p> <p>Background: Anti-GABA(A) Receptor beta 3 pS408/pS409 Antibody detects GABA(A) Receptor beta 3. 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. Phosphorylation of serine 408 and serine 409 within the beta3 subunit have been shown to be critical for the functional modulation of beta3 containing recombinant receptors. GABA(A) Receptor beta 3 pS408/pS409 antibody is ideal for investigators involved in Neuroscience.</p> <p>Gene Name: GABRB3</p>
Gene ID:	24922
UniProt:	<a href="#">P63079</a>
Pathways:	<a href="#">Sensory Perception of Sound</a>

## Application Details

Application Notes:	<p>Application Note: Anti-GABA(A) Receptor beta 3 pS408/pS409 (Rabbit) antibody is suitable for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 53 kDa in size corresponding to GABA(A) receptor beta 3 subunit phosphorylated at Ser408/409 in the appropriate cell lysate or extract.</p> <p>Western Blot Dilution: 1:1000</p>
Restrictions:	For Research Use only

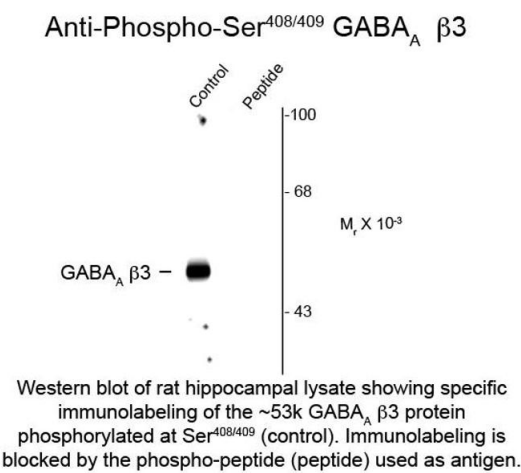
Handling

Format:	Liquid
Buffer:	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
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.

Publications

Product cited in:	Coleman, Maile, Jones, Cairns, Crews: "HMGB1/IL-1β complexes in plasma microvesicles modulate immune responses to burn injury." in: <b>PLoS ONE</b> , Vol. 13, Issue 3, pp. e0195335, (2018) ( <a href="#">PubMed</a> ).
	Ward, Maselko, Lupfer, Prescott, Pastey: "Interaction of the Human Respiratory Syncytial Virus matrix protein with cellular adaptor protein complex 3 plays a critical role in trafficking." in: <b>PLoS ONE</b> , Vol. 12, Issue 10, pp. e0184629, (2017) ( <a href="#">PubMed</a> ).

Images



Western Blotting

**Image 1.** Western Blot of Anti-GABA(A) Receptor beta 3 pS408/pS409 (Rabbit) Antibody - 612-401-D51 Western Blot of Rabbit anti-GABA(A) Receptor beta 3 pS408/pS409 antibody. Lane 1: rat hippocampal lysate. Lane 2: rat hippocampal lysate 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: ~53kDa/~53kDa for GABAA β3 protein phosphorylated at Ser408/409. Other band(s): none.