Datasheet for ABIN6658229

anti-GABBR2 antibody (pSer783)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	GABBR2
Binding Specificity:	pSer783
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABBR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	GABA(B) Receptor 2 phospho S783 Antibody
Immunogen:	Anti-GABA(B) Receptor 2 pS783 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser 783 of rat GABAB R2.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-GABA(B) Receptor 2 pS783 Antibody is directed against rat phosphorylated GABA(B) Receptor 2.
Purification:	The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	GABBR2

Target Details

Alternative Name:	GABA(B) Receptor 2 (GABBR2 Products)
Background:	Synonyms: Gamma-aminobutyric acid type B receptor subunit 2, GABA-B-R2, GABA-BR2, GABABR2, Gb2, G-protein coupled receptor 51 Background: Anti-GABA(A) Receptor 2 pS783 Antibody detects phosphorylated GABA(A) Receptor 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. GABAB receptors are heterodimeric G protein-coupled receptors that mediate slow synaptic inhibition in the central nervous system. It has recently been demonstrated that AMPK binds directly to GABAB receptors and phosphorylates S783 in the cytoplasmic tail of the R2 subunit and that S783 plays a critical role in enhancing neuronal survival after ischemia as phosphorylation of S783 is evident in many brain regions and is increased dramatically after ischemic injury to the brain. GABA(B) Receptor 2 pS783 antibody is ideal for investigators involved in Neuroscience. Gene Name: GABBR2
Gene ID:	83633, 8393403
UniProt:	O88871
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	IF_Microscopy_Dilution: 1:500 Western_Blot_Dilution: 1:1000
Comment:	Anti-GABA(B) Receptor 2 pS783 (Rabbit) antibody is tested for use in Western Blotting, ICC, and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 102 kDa in size corresponding to GABA(B) receptor 2 protein phosphorylated at Ser783 in the appropriate cell lysate or extract.
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

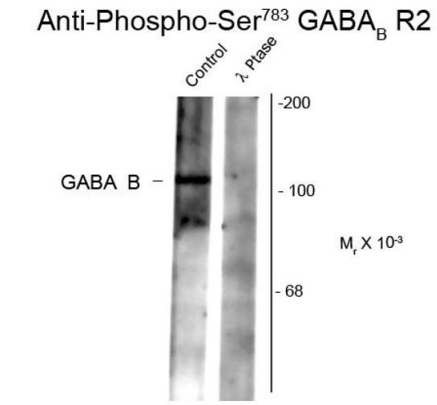
Handling

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

Publications

Product cited in:	Wu, Kuo, Min, Chen, Yang: "Extracellular Signal-Regulated Kinases Mediate an Autoregulation of GABAB-Receptor-Activated Whole-Cell Current in Locus Coeruleus Neurons." in: **Scientific reports**, Vol. 10, Issue 1, pp. 7869, (2020) (PubMed).

Images



Western blot of rat synaptic membrane showing phospho-specific immunolabeling of the ~102k $GABA_B$ R2 protein phosphorylated at Ser^{783}.

Western Blotting

Image 1. Western Blot of Anti-GABA(B) Receptor 2 pS783 (Rabbit) Antibody - 612-401-D53 Western Blot of Rabbit anti-GABA(B) Receptor 2 pS783 antibody. Lane 1: rat synaptic membrane. Lane 2: rat synaptic membrane incubated in λ-Ptase (1200 units for 30 min). Load: 10 µg per lane. Primary antibody: GABAB-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: ~102 kKd/~102 kDa for GABAB R2 protein phosphorylated at Ser783. Other band(s): none.