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Datasheet for 612-401-D54

GABA(B) Receptor 1 phospho S923 Antibody

Overview

Description:	Anti-GABA(B) Receptor 1 pS923 (RABBIT) Antibody - 612-401-D54
Item No.:	612-401-D54
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	GABA(B) Receptor 1 pS923 Antibody detects phosphorylated GABA beta Receptor gamma 1. 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. Phosphorylation enhances GABAB receptor effector coupling. Phosphorylation of Ser 923 is thought to be important in the regulation of GABAB receptor function. GABA(B) Receptor 1 pS923 antibody is ideal for investigators involved in Neuroscience.
Synonyms:	Gamma-aminobutyric acid type B receptor subunit 1, GABA-B-R1, GABA-BR1, GABABR1, Gb1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Gabbr1
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GABA(B) Receptor 1 pS923 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser 923 of rat GABA B R1.
Purity/Specificity:	Anti-GABA(B) Receptor 1 pS923 Antibody is directed against rat phosphorylated GABA(B) Receptor . The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling of the GABAB R1 band is completely blocked by lambda-phosphatase treatment. Reactivity is expected from the following species based on 100% sequence homology: bovine, human, mouse and non-human primates.
Relevant Links:	• UniProtKB - Q9Z0U4 • GeneID - 81657 • NCBI - 8393403

Application Details

Tested Applications:	WB
Application Note:	Anti-GABA(B) Receptor 1 pS923 (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 102 kDa in size corresponding to GABA(B) receptor 1 protein phosphorylated at Ser923 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

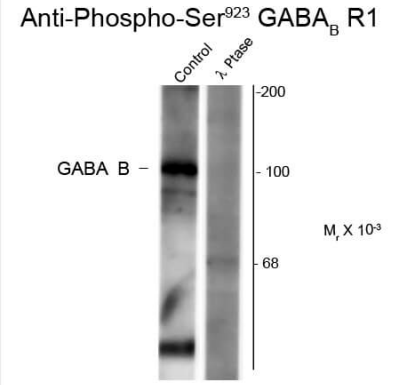
Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western blot of rat synaptic membrane showing phospho-specific immunolabeling of the ~102k $GABA_B$ R1 protein phosphorylated at Ser^{923}.

Western Blot
Western Blot of Rabbit anti-GABA(B) Receptor 1 pS923 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: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: ~102kDa/~102kDa for GABAB R1 protein phosphorylated at Ser923. Other band(s): none.

References

- Feng L et al. Autophagy-lysosome dysfunction is involved in gastric ischemia□reperfusion injury by promoting microglial activation in the paraventricular nucleus. *J Biochem Mol Toxicol.* (2022)

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