

ARG52304 anti-GABAB Receptor 2 phospho (Ser783) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GABAB Receptor 2 phospho (Ser783)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GABAB Receptor 2
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser783 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	HRIHFB2099; GABA-B receptor 2; GABA-B-R2; GPRC3B; GABA-BR2; G-protein coupled receptor 51; GPR51; GABABR2; Gamma-aminobutyric acid type B receptor subunit 2; HG20; Gb2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:500
	WB	1:1,000
Application Note	<p>Specific for ~102k GABAB R2 phosphorylated at Ser783. Immunolabeling of the GABAB R2 band is completely blocked by λ-phosphatase treatment.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

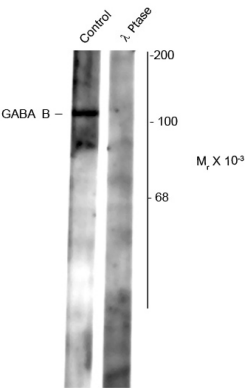
Properties

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: 83633 Rat Swiss-port # O88871 Rat
Gene Symbol	GABBR2
Gene Full Name	gamma-aminobutyric acid (GABA) B receptor 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. 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 (Kuramoto et al., 2007).
Research Area	Neuroscience antibody
Calculated Mw	106 kDa

Images



ARG52304 anti-GABAB Receptor 2 phospho (Ser783) antibody WB image

Western blot: Rat synaptic membrane showing specific immunolabeling of the ~102 k GABAB R2 protein phosphorylated at Ser783 (control) stained with ARG52304 anti-GABAB Receptor 2 phospho (Ser783) antibody. The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: λ-Ptase).