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AP05672PU-N Polyclonal Antibody to GABBR2 pSer783 - Purified

Alternate names: G-protein coupled receptor 51, GABA-B receptor 2, GABA-B-R2, GABBR-2, GPR51, GPRC3B, Gamma-aminobutyric acid type B receptor subunit 2, Gb2, HG20

Quantity: 0.1 ml

Background: GABA B receptors are heterodimeric G-protein coupled receptors which are important mediators of slow neuronal inhibition in the mammalian central nervous system. The functional expression of GABA B receptors on plasma membranes is dependent upon the co-expression of GABR1 (gamma-aminobutyric acid B (GABA B) receptor 1) and GABR2. Studies have shown that the phosphorylation of GABR2 at the Ser783 site, by AMPK (5'AMPactivated protein kinase), is vital for enhancing the survival of neurons following ischemic brain injury.

Uniprot ID: O75899

NCBI: NP_005449

GeneID: 9568

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic phosphopeptide corresponding to an amino acid sequence within GABA B receptor 2, which includes phosphorylated Ser783.

Format: **State:** Liquid purified IgG
Buffer System: 10mM Hepes pH7.5 containing 0.09% Sodium Azide (NaN3), 0.01% Bovine Serum Albumin, 50% Glycerol

Applications: Western Blot: 1:1000.
Immunofluorescence: 1:500; detects a band of approximately 102kDa in rat synaptic membrane cell lysates.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody specifically recognises the 102kDa transmembrane gamma-aminobutyric acid B (GABA B) receptor 2 (GABR2), when phosphorylated at Ser783.
Species: Rat.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

General Readings: 1. Bowery, N.G. et al. (2002) International Union of Pharmacology XXXIII. Mammalian gammaaminobutyric acidB receptors: structure and function. Pharmacol. Rev. 54: 247 - 264.