



Anti-GABBR1 (C-terminal) polyclonal antibody (DPABH-01294)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Receptor for GABA. The activity of this receptor is mediated by G-proteins that inhibit adenylyl cyclase activity, stimulates phospholipase A2, activates potassium channels, inactivates voltage-dependent calcium-channels and modulates inositol phospholipids hydrolysis. Plays a critical role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA-B-R inhibit neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas postsynaptic GABA-B-R decrease neuronal excitability by activating a prominent inwardly rectifying potassium (Kir) conductance that underlies the late inhibitory postsynaptic potentials. Not only implicated in synaptic inhibition but also in hippocampal long-term potentiation, slow wave sleep, muscle relaxation and antinociception. Activated by (-)-baclofen, cgp27492 and blocked by phaclofen. Isoform 1E function may be to regulate the availability of functional GABA-B-R1A/GABA-B-R2 heterodimers by competing for GABA-B-R2 dimerization. This could explain the observation that certain small molecule ligands exhibit differential affinity for central versus peripheral sites.

Immunogen	Synthetic peptide, conjugated to KLH corresponding to residues in the C terminal of Human GABA B Receptor 1.
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P
Format	Liquid

Size	50 µg
Buffer	pH: 7.30; Constituents: Tris buffered saline, 0.5% BSA
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	GABBR1 gamma-aminobutyric acid (GABA) B receptor, 2 [Homo sapiens]
Official Symbol	GABBR1
Synonyms	GABBR1; gamma-aminobutyric acid (GABA) B receptor, 1; GB1; GPRC3A; GABABR1; GABBR1-3; dJ271M21.1.1; dJ271M21.1.2; gamma-aminobutyric acid type B receptor subunit 1; GABA-BR1; GABAB, subunit 1c; seven transmembrane helix receptor;
Entrez Gene ID	2550
Protein Refseq	NP_001461.1
UniProt ID	Q9UBS5
Pathway	Activation of G protein gated Potassium channels; Class C/3 (Metabotropic glutamate/pheromone receptors); Estrogen signaling pathway; G protein gated Potassium channels
Function	G-protein coupled GABA receptor activity; contributes_to G-protein coupled GABA receptor activity; protein binding;