Rabbit GABBR2 Polyclonal Antibody | anti-GABBR2 antibody

Phospho-GABBR2 (Ser884) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329870	**Rabbit**	**Human, Mouse, RatPredicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)**	**ELISA, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

GABBR2; Polyclonal Antibody; Phospho-GABBR2 (Ser884) Antibody; BcDNA:GH07312; CG6706; CT20836; D Gaba2; FLJ36928; G protein coupled receptor 51; G-protein coupled receptor 51; GAB B R2; GABA B R2; GABA B receptor 2; GABA-B receptor 2; GABA-B-R2; GABA-BR2; GABAB R2; GABABR 2; GABABR2; GABB R2; GABBR 2; Gabbr2; GABR2_HUMAN; Gamma aminobutyric acid B receptor 2; Gamma aminobutyric acid GABA B receptor 2; Gamma aminobutyric acid type B receptor subunit 2; Gamma-aminobutyric acid type B receptor subunit 2; Gb 2; Gb2; GH07312; GPR 51; GPR51; GPRC 3B; GPRC3B; HG 20; HG20; HRIHFB2099; Metabotropic GABA B receptor subtype 2; OTTHUMP00000021776; OTTHUMP00000063797; R2 SUBUNIT; anti-GABBR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-GABBR2 (Ser884) Antibody detects endogenous levels of GABBR2 only when phosphorylated at Ser884. Tissue Specificity: Highly expressed in brain, especially in cerebral cortex, thalamus, hippocampus, frontal, occipital and temporal lobe, occipital pole and cerebellum, followed by corpus callosum, caudate nucleus, spinal cord, amygdala and medulla. Weakly expressed in heart, testis and skeletal muscle.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-GABBR2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GABBR2 around the phosphorylation site of Ser884.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Heterodimer of GABBR1 and GABBR2. Homodimers may form, but are inactive. Interacts (via C-terminus) with ATF4 (via leucine zipper domain) (By similarity).
Similarity	Alpha-helical parts of the C-terminal intracellular region mediate heterodimeric interaction with GABBR1.Belongs to the G-protein coupled receptor 3 family. GABA-B receptor subfamily.
Subcellular Location	Cell membrane>Multi-pass membrane protein. Cell junction>Synapse>Postsynaptic cell membrane>Multi-pass membrane protein. Note: Coexpression of GABBR1 and GABBR2 is required for GABBR1 maturation and transport to the plasma membrane. In contrast, GABBR2 does not depend on GABBR1 for transport to the cell membrane.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohiostchemistry)
Staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

WB (Western Blot)
Western blot analysis GABBR2 (Phospho-Ser884) using UV treated K562 whole cell lysates.-/+ means absence or presence of N peptideï¼ˆnon-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-GABBR2 antibody	Component of a heterodimeric G-protein coupled receptor for GABA, formed by GABBR1 and GABBR2. Within the heterodimeric GABA receptor, only GABBR1 seems to bind agonists, while GABBR2 mediates coupling to G proteins. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase, stimulates phospholipase A2, activates potassium channels, inactivates voltage-dependent calcium-channels and modulates inositol phospholipid hydrolysis. Plays a critical role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA receptor inhibits neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas postsynaptic GABA receptor decreases 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 (Probable).

NCBI AND UNIPROT INFORMATION

NCBI GI #	40255245
NCBI GeneID	9568
NCBI Accession #	NP_005449.5
NCBI GenBank Nucleotide #	NM_005458.7
UniProt Accession #	O75899; O75974; O75975; Q5VXZ2; Q8WX04; Q9P1R2; Q9UNR1; Q9UNS9
Molecular Weight	105,821 Da
NCBI Official Full Name	gamma-aminobutyric acid type B receptor subunit 2
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) B receptor, 2
NCBI Official Symbol	GABBR2
NCBI Official Synonym Symbols	HG20; GPR51; GPRC3B; GABABR2; HRIHFB2099
NCBI Protein Information	gamma-aminobutyric acid type B receptor subunit 2; gb2; GABA-BR2; GABA-B-R2; GABA-B receptor 2; GABA-B receptor, R2 subunit; G protein-coupled receptor 51; G-protein coupled receptor 51; gamma-aminobutyric acid B receptor 2
UniProt Protein Name	Gamma-aminobutyric acid type B receptor subunit 2
UniProt Gene Name	**GABBR2**
UniProt Synonym Gene Names	GPR51; GPRC3B; GABA-B receptor 2; GABA-B-R2; GABA-BR2; GABABR2; Gb2
UniProt Entry Name	GABR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/gabbr2-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329870