

Rabbit GABA B Polyclonal Antibody | anti-GABA B antibody

GABA B Receptor Antibody

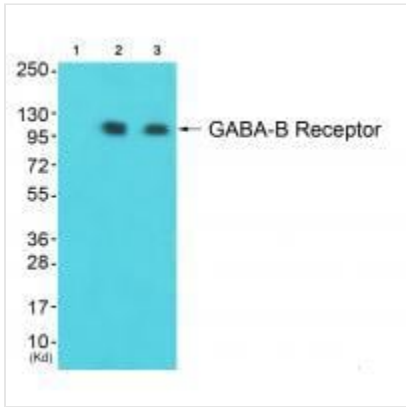
CATALOG # AAA308035	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

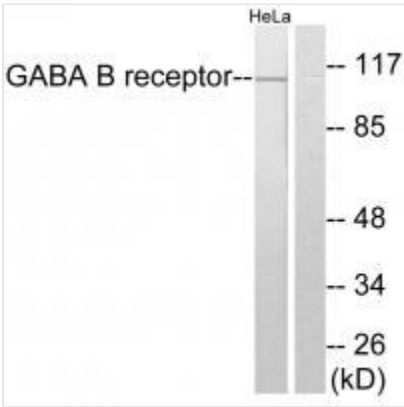
GABA B; Polyclonal Antibody; GABA B Receptor Antibody; GABABR2; GPR51; G protein-coupled receptor 51; GABA-B RECEPTOR; R2 SUBUNIT; anti-GABA B antibody

PRODUCT SPECIFICATIONS

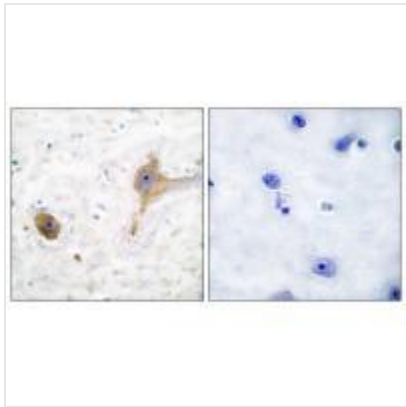
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total GABA B Receptor protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	961
Applicable Applications for anti-GABA B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human GABA B receptor.
Target Name	GABA B Receptor
Preparation and Storage	Store at -20 degree C



WB (Western Blot)
Western blot analysis of extracts from JK cells (Lane 2) and A549 cells (Lane 3), using GABA-B Receptor antibody. The lane on the left is treated with synthesized peptide.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using GABA B Receptor antibody.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human brain tissue using GABA B Receptor antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GABA B 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. Calcium is required for high affinity binding to GABA. 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. Activated by (-)-baclofen, cgp27492 and blocked by phaclofen. Isoform 1E may regulate the formation of functional GABBR1/GABBR2 heterodimers by competing for GABBR2 binding. This could explain the observation that certain small molecule ligands exhibit differential affinity for central versus peripheral sites.Xinmin Xie, J. Physiol., Jul 2006; 574: 399 - 414.A. Gambardella, Neurology, Feb 2003; 60: 560 - 563.P Tosetti, J. Physiol., Nov 2005; 568: 951 - 966.Marta Margeta-Mitrovic, PNAS, Dec 2001; 98: 14643.
Product Categories/Family for anti-GABA B antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835015
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NCBI GeneID	2550
NCBI Accession #	NP_001461.1
NCBI GenBank Nucleotide #	NM_001470.2
UniProt Accession #	Q9UBS5; O95375; O95468; O95975; O96022; Q5STL4; Q5SUJ8; Q5SUL3; Q71SG6; Q86W60; Q9UQQ0; B0UXY7
Molecular Weight	65,082 Da
NCBI Official Full Name	gamma-aminobutyric acid type B receptor subunit 1 isoform a
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) B receptor, 1
NCBI Official Symbol	GABBR1
NCBI Official Synonym Symbols	GB1; GPRC3A; GABABR1; GABBR1-3; dJ271M21.1.1; dJ271M21.1.2
NCBI Protein Information	gamma-aminobutyric acid type B receptor subunit 1
UniProt Protein Name	Gamma-aminobutyric acid type B receptor subunit 1
UniProt Gene Name	GABBR1
UniProt Synonym Gene Names	GPRC3A; GABA-B receptor 1; GABA-B-R1; GABA-BR1; GABABR1; Gb1
UniProt Entry Name	GABR1_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://www.aaabiotech.com/polyclonal/gaba-b-antibody-immunohistochemistry-western-blot-elisa/308035>