

Rabbit GABA A Receptor beta 3 Polyclonal Antibody | anti-GABRB3 antibody

GABA A Receptor beta 3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328992	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(88%), Horse(100%), Sheep(88%), Rabbit(100%), Chicken(100%)	ELISA

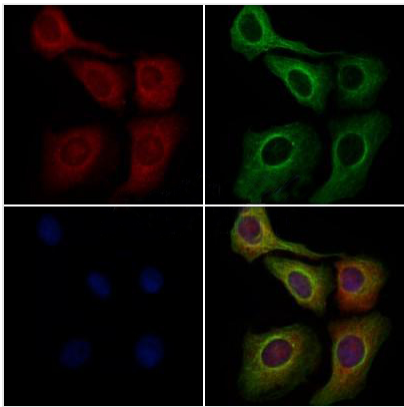
PRODUCT SYNONYMS

GABA A Receptor beta 3; Polyclonal Antibody; GABA A Receptor beta 3 Antibody; ECA5; GABA alpha receptor beta-2 subunit; GABA(A) receptor subunit beta-3; GABAA receptor beta 3 subunit; GABAA receptor subunit beta 3; GABR B3; Gabrb3; Gamma aminobutyric acid (GABA) A receptor beta 3; Gamma aminobutyric acid receptor subunit beta 3; Gamma-aminobutyric acid receptor subunit beta-3; GBRB3_HUMAN; MGC9051; anti-GABRB3 antibody

PRODUCT SPECIFICATIONS

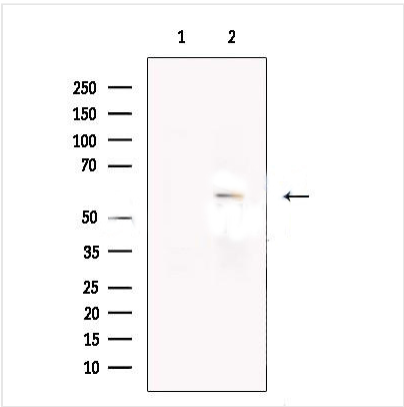
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(88%), Horse(100%), Sheep(88%), Rabbit(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	GABA A Receptor beta 3 Antibody detects endogenous levels of total GABA A Receptor beta 3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
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)
Sequence Length	473
Applicable Applications for anti-GABRB3 antibody	ELISA
Immunogen	A synthesized peptide derived from human GABA A Receptor beta 3, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA328992 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328992 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Rat brain, using GABA A Receptor beta 3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GABRB3 antibody	Function: Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:18514161, PubMed:22303015, PubMed:26950270, PubMed:22243422, PubMed:24909990). Plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel (PubMed:25489750). The gamma2 subunit is necessary but not sufficient for a rapid formation of active synaptic contacts and the synaptogenic effect of this subunit is influenced by the type of alpha and beta subunits present in the receptor pentamer (By similarity). The alpha1/beta3/gamma2 receptor exhibits synaptogenic activity (PubMed:25489750). The alpha2/beta3/gamma2 receptor shows very little or no synaptogenic activity (By similarity). Functions also as histamine receptor and mediates cellular responses to histamine (PubMed:18281286). Plays an important role in somatosensation and in the production of antinociception (By similarity). Subcellular Location: Cell junction>Synapse>Postsynaptic cell membrane>Multi-pass membrane protein. Cell membrane>Multi-pass membrane protein. Cytoplasmic vesicle membrane. Subunit Structure: Heteropentamer, formed by a combination of alpha, beta, gamma, delta and rho chains (PubMed:22243422, PubMed:18281286, PubMed:18514161, PubMed:24909990). Can form functional homopentamers (in vitro) (PubMed:22303015). Interacts with UBQLN1 (By similarity). May interact with KIF21B (By similarity). Identified in a complex of 720 kDa composed of LHFPL4, NLGN2, GABRA1, GABRB2, GABRG2 and GABRB3 (By similarity). Interacts with LHFPL4 (By similarity). Similarity: Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRB3 sub-subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503867
NCBI GeneID	2562
NCBI Accession #	NP_000805.1
NCBI GenBank Nucleotide #	NP_000805.1
UniProt Accession #	P28472
Molecular Weight	Observed Molecular Weight: (Observed)54kD. Predicted Molecular Weight: (Calculated)54kDa.

NCBI Official Full Name	gamma-aminobutyric acid receptor subunit beta-3 isoform 1
NCBI Official Synonym Full Names	gamma-aminobutyric acid type A receptor subunit beta3
NCBI Official Symbol	GABRB3
NCBI Official Synonym Symbols	ECA5; EIEE43
NCBI Protein Information	gamma-aminobutyric acid receptor subunit beta-3
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit beta-3
UniProt Gene Name	GABRB3
UniProt Entry Name	GBRB3_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-a-receptor-beta-3-antibody-elisa/328992>