Mouse GABA(A) Receptor Beta3 Monoclonal Antibody | anti-Gabrb3 antibody

GABA-A Receptor Beta3 Antibody: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103407	**Mouse**	**Mouse, Human, Rat**	**Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

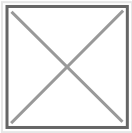
GABA(A) Receptor Beta3; Monoclonal Antibody; GABA-A Receptor Beta3 Antibody: ATTO 488; Gabrb3; GABA(A) receptor subunit beta3; anti-Gabrb3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse, Human, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	S87-25
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	473
Applicable Applications for anti-Gabrb3 antibody	ICC (Immunocytochemistry), WB (Western Blot)
Conjugate	ATTO 488
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western Blot analysis of Rat brain membrane lysate showing detection of GABA A Receptor protein using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone S87-25. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone S87-25. Tissue: Brain. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 ul for 5 minutes at RT.

ADDITIONAL INFORMATION

Related Product Information for anti-Gabrb3 antibody	**Background Info:** Detects ~55kDa. No cross-reactivity against GABA-A-R-Beta 2 or -Beta1. **Scientific Background:** The GABA-A receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features (3). GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain (4).

Product Categories/Family for anti-Gabrb3 antibody	Ion Channels; Neuroscience
References	1. Hille B. (2001) Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associated Inc.: Sunderland, MA USA. 2. www.iochannels.org 3. Bracamontes J.R. and Steinbach J.H. (2008) J Bio Chem. 283: 26128-26136. 4. Macdonald R.L., Olsen R.W. (1993) Annu Rev Neurosci. 17: 569-602.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6679911
NCBI GeneID	14402
NCBI Accession #	NP_032097.1
NCBI GenBank Nucleotide #	NM_008071.3
UniProt Accession #	P63080; P15433; Q3UHR3
Molecular Weight	54,166 Da
NCBI Official Full Name	gamma-aminobutyric acid receptor subunit beta-3 isoform a
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3
NCBI Official Symbol	Gabrb3
NCBI Official Synonym Symbols	Cp1; beta3; Gabrb-3; AW049585; A230092K12Rik
NCBI Protein Information	gamma-aminobutyric acid receptor subunit beta-3; cleft palate 1; GABA(A) receptor subunit beta-3; gamma-aminobutyric acid (GABA-A) receptor, subunit beta 3
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit beta-3
UniProt Gene Name	**Gabrb3**
UniProt Synonym Gene Names	Gabrb-3
UniProt Entry Name	GBRB3_MOUSE

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/monoclonal/gabaa-receptor-beta3-antibody-clone-s87-25-immunocytochemistry-western-blot-elisa/103407