

Mouse GABA(A) Receptor Alpha1 Monoclonal Antibody | anti-Gabra1 antibody

GABA-A Receptor Alpha-1 Antibody

CATALOG # AAA102824	HOST Mouse	REACTIVITY Mouse, Human, Rat	APPLICATIONS Immunocytochemistry, Western Blot
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PRODUCT SYNONYMS

GABA(A) Receptor Alpha1; Monoclonal Antibody; GABA-A Receptor Alpha-1 Antibody; Gabrb-1; Gabrb1; AW061132; anti-Gabra1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse, Human, Rat
Clonality	Monoclonal
Isotype	IgG2A
Clone Number	S95-35
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	455
Applicable Applications for anti-Gabra1 antibody	ICC (Immunocytochemistry), WB (Western Blot)
Certificate of Analysis	1 ug/mL was sufficient for detection of alpha1 GABA receptor in 10ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
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 Human Cell line lysates showing detection of GABA A Receptor protein using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone S95-35. 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 S95-35. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dermal Cells.

ADDITIONAL INFORMATION

Related Product Information for anti-Gabra1 antibody

Background Info: Detects ~55kDa. No cross-reactivity against GABA-A-R-Alpha 2 or -Alpha3.

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-Gabra1 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 #	6753936
NCBI GeneID	14394
NCBI Accession #	NP_034380.1
NCBI GenBank Nucleotide #	NM_010250.5
UniProt Accession #	P14867 ; P18504 ; P62812
Molecular Weight	51,754 Da
NCBI Official Full Name	gamma-aminobutyric acid receptor subunit alpha-1
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1
NCBI Official Symbol	Gabra1
NCBI Official Synonym Symbols	Gabra-1
NCBI Protein Information	gamma-aminobutyric acid receptor subunit alpha-1; GABAA alpha 1; GABAAR alpha1; GABA(A) receptor subunit alpha-1; gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 1
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit alpha-1
UniProt Gene Name	Gabra1
UniProt Synonym Gene Names	Gabra-1
UniProt Entry Name	GBRA1_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.