

Rabbit GABA A Receptor gamma 2/GABRG2 Polyclonal Antibody | anti-GABRG2 antibody

Anti-GABA A Receptor gamma 2/GABRG2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125651	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

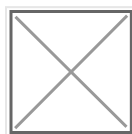
PRODUCT SYNONYMS

GABA A Receptor gamma 2/GABRG2; Polyclonal Antibody; Anti-GABA A Receptor gamma 2/GABRG2 Antibody; GABRG2; Gamma-aminobutyric acid receptor subunit gamma-2; GABA(A receptor subunit gamma-2; gamma-aminobutyric acid type A receptor subunit gamma2; anti-GABRG2 antibody

PRODUCT SPECIFICATIONS

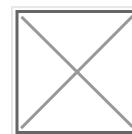
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for GABA A Receptor gamma 2/GABRG2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-GABRG2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human GABA A Receptor gamma 2/GABRG2 recombinant protein (Position: Q40-R446).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-GABA A Receptor gamma 2/GABRG2 antibody (AAA125651). Overlay histogram showing THP-1 cells stained with AAA125651 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GABA A Receptor gamma 2/GABRG2 Antibody (AAA125651, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of GABA A Receptor gamma 2/GABRG2 using anti-GABA A Receptor gamma 2/GABRG2 antibody (AAA125651). GABA A Receptor gamma 2/GABRG2 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GABA A Receptor gamma 2/GABRG2 Antibody (AAA125651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of GABA A Receptor gamma 2/GABRG2 using anti-GABA A Receptor gamma 2/GABRG2 antibody (AAA125651).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysatesLane 2: rat brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-GABA A Receptor gamma 2/GABRG2 antigen affinity purified polyclonal antibody (Catalog # AAA125651) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GABA A Receptor gamma 2/GABRG2 at approximately 50KD. The expected band size for GABA A Receptor gamma 2/GABRG2 is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GABRG2 antibody	Gamma-aminobutyric acid receptor subunit gamma-2 is a protein that in humans is encoded by the GABRG2 gene. This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory neurotransmitter in the mammlian brain, where it acts at GABA-A receptors, which are ligand-gated chloride channels. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene have been associated with epilepsy and febrile seizures. Multiple transcript variants encoding different isoforms have been identified for this gene.
References	<div>1. Audenaert, D., Schwartz, E., Claeys, K. G., Claes, L., Deprez, L., Suls, A., Van Dyck, T., Lagae, L., Van Broeckhoven, C., Macdonald, R. L., De Jonghe, P. A novel GABRG2 mutation associated with febrile seizures. Neurology 67: 687-690, 2006.</div> <div>2. Baulac, S., Huberfeld, G., Gourfinkel-An, I., Mitropoulou, G., Beranger, A., Prud'homme, J. -F., Baulac, M., Brice, A., Bruzzone, R., LeGuern, E. First genetic evidence of GABA(A) receptor dysfunction in epilepsy: a mutation in the gamma-2-subunit gene. Nature Genet. 28: 46-48, 2001.</div> <div>3. Buckwalter, M. S., Lossie, A. C., Scarlett, L. M., Camper, S. A. Localization of the human chromosome 5q genes Gabra-1, Gabrg-2, l1-4, l1-5, and lrf-1 on mouse chromosome 11. Mammalian Genome 3: 604-607, 1992.</div>

NCBI AND UNIPROT INFORMATION

NCBI GI #	116242488
NCBI GeneID	2566
UniProt Accession #	P18507; Q6GRL6; Q6PCC3; Q9UDB3; Q9UN15; F5HB82
Molecular Weight	467
NCBI Official Full Name	Gamma-aminobutyric acid receptor subunit gamma-2
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) A receptor, gamma 2
NCBI Official Symbol	GABRG2
NCBI Official Synonym Symbols	CAE2; ECA2; GEFSP3
NCBI Protein Information	gamma-aminobutyric acid receptor subunit gamma-2; GABA(A) receptor, gamma 2; GABA(A) receptor subunit gamma-2
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit gamma-2
UniProt Gene Name	GABRG2
UniProt Entry Name	GBRG2_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/gaba-a-receptor-gamma-2-gabrg2-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125651>