

Anti-GABAA Receptor y2 Antibody

Our Anti-GABAA Receptor $\gamma 2$, rabbit polyclonal primary antibody from PhosphoSolutions is produced in-

Catalog # AN1404

Specification

Anti-GABAA Receptor y2 Antibody - Product Information

Application WB
Primary Accession P18508
Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 54077

Anti-GABAA Receptor y2 Antibody - Additional Information

Gene ID 29709

Other Names

CAE 2 antibody, CAE2 antibody, ECA 2 antibody, ECA2 antibody, GABA(A) receptor gamma 2 antibody, GABA(A) receptor subunit gamma 2 antibody, GABA(A) receptor subunit gamma-2 antibody, GABRG 2 antibody, GABRY2 antibody, Gamma aminobutyric acid (GABA) A receptor gamma 2 antibody, Gamma aminobutyric acid A receptor gamma 2 antibody, Gamma aminobutyric acid receptor subunit gamma-2 antibody, GBRY2 HUMAN antibody, GEFSP 3 antibody, GEFSP3 antibody

Target/Specificity

Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a CI— channel associated with the GABA-A receptor (GABA-A-R) subtype. GABA-A-Rs are important therapeutic targets for a range of sedative, anxiolytic, and hypnotic agents and are implicated in several diseases including epilepsy, anxiety, depression, and substance abuse. The GABA-A-R is a multimeric subunit complex. To date six α s, four β s and four γ s, plus alternative splicing variants of some of these subunits, have been identified (Olsen and Tobin, 1990; Whiting et al., 1999; Ogris et al., 2004). Injection in oocytes or mammalian cell lines of cRNA coding for α - and β -subunits results in the expression of functional GABA-A-Rs sensitive to GABA. However, coexpression of a γ -subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different α -subunits of the receptor (McKernan et al., 2000; Mehta and Ticku, 1998; Ogris et al., 2004; Pöltl et al., 2003).

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-GABAA Receptor $\gamma 2$ Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



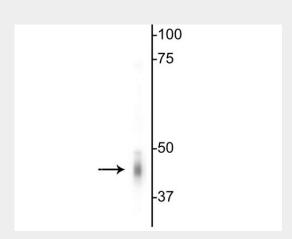
Shipping Blue Ice

Anti-GABAA Receptor y2 Antibody - Protocols

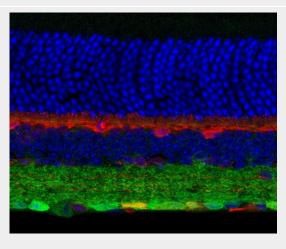
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-GABAA Receptor γ2 Antibody - Images

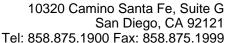


Western blot of mouse whole brain lysate showing specific immunolabeling of the \sim 46 kDa γ 2-subunit of GABAA Receptor.



Immunostaining of mouse retina showing specific labeling of the GABAA-R $\gamma 2$ subunit (cat. 832A-GG2C, green, 1:300) and calbindin (red). The blue stain is DAPI staining nuclear DNA. Photo courtesy of Dr. Arlene Hirano, UCLA.

Anti-GABAA Receptor y2 Antibody - Background





Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a Cl– channel associated with the GABA-A receptor (GABA-A-R) subtype. GABA-A-Rs are important therapeutic targets for a range of sedative, anxiolytic, and hypnotic agents and are implicated in several diseases including epilepsy, anxiety, depression, and substance abuse. The GABA-A-R is a multimeric subunit complex. To date six αs , four βs and four γs , plus alternative splicing variants of some of these subunits, have been identified (Olsen and Tobin, 1990; Whiting et al., 1999; Ogris et al., 2004). Injection in oocytes or mammalian cell lines of cRNA coding for α - and β -subunits results in the expression of functional GABA-A-Rs sensitive to GABA. However, coexpression of a γ -subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different α -subunits of the receptor (McKernan et al., 2000; Mehta and Ticku, 1998; Ogris et al., 2004; Pöltl et al., 2003).