

AP05936PU-N**Polyclonal Antibody to GABRA1 (N-term) - Purified****Alternate names:**

GABA A receptor subunit alpha-1, GABRA-1, Gamma-aminobutyric acid receptor subunit alpha-1

Quantity:

0.1 ml

Background:

GABA A receptors are GABA gated chloride channels, which are important mediators of neuronal inhibition in the mammalian central nervous system. Activation of the GABA A site results in increased intracellular chloride concentration and hyperpolarization of the cell.

GABA A receptors are pentameric structures assembled from a family of distinct subunits. At least fourteen distinct subunits have been identified, which show distinct patterns of temporal and spatial expression.

GABA A receptors may be modulated by several drug types including benzodiazepines and barbiturates, and by phosphorylation by protein kinase C (PKC) and protein kinase A (PKA).

Uniprot ID:

[P62813](#)

NCBI:

[NP_899155.1](#)

GeneID:

[29705](#)

Host / Isotype:

Rabbit / IgG

Immunogen:

Keyhole limpet haemocyanin conjugated synthetic peptide corresponding to the N-terminal region of rat GABA_A receptor Alpha-1 subunit.

Format:

State: Liquid purified Ig

Purification: Affinity chromatography

Buffer System: 10mM Hepes, pH7.5 containing 0.09% Sodium Azide, 0.01% Bovine Serum Albumin, 50% Glycerol

Applications:

Western Blot: 1:1000; detects a band of approximately 51kDa in rat brain membrane fractions.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognises an epitope within the N-terminal region (NT) of the alpha 1 subunit of rat gamma-aminobutyric acid (A) (GABA A) receptor.

Species: Rat, Mouse.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Caution:

(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

General Readings:

1. Burt DR, Kamatchi GL. GABAA receptor subtypes: from pharmacology to molecular biology. FASEB J. 1991 Nov;5(14):2916-23. PubMed PMID: 1661244.
2. Olsen, R.W. and Tobin, A.J. (1990) Molecular biology of GABAA receptors. FASEB J. 4: 1469-1480.