

## Product datasheet for **AP22583PU-N**

### **GABA A Receptor alpha 4 (GABRA4) (349-361) Goat Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/16000. <b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml. <b>Western Blot:</b> 0.1 - 0.3 µg/ml.
Reactivity:	Bovine, Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region of human GABRA4 (NP_000800.2)
Specificity:	This antibody detects GABRA4 (Internal).
Formulation:	Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store (in aliquots) at -20 °C. Dilute only prior to immediate use. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	gamma-aminobutyric acid type A receptor alpha4 subunit
Database Link:	<a href="#">Entrez Gene 2557 Human P48169</a>



[View online »](#)

**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<sup>-</sup> channel associated with the GABA-A receptor subtype. GABA-A receptors 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 receptor is a multimeric subunit complex. To date six alpha, four beta, and four gamma subunits, plus alternative splicing variants of some of these subunits, have been identified. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor.

**Synonyms:**

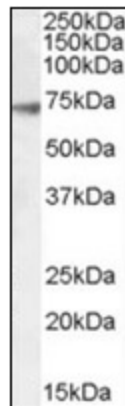
GABRA-4, GABAA Receptor alpha-4

**Protein Families:**

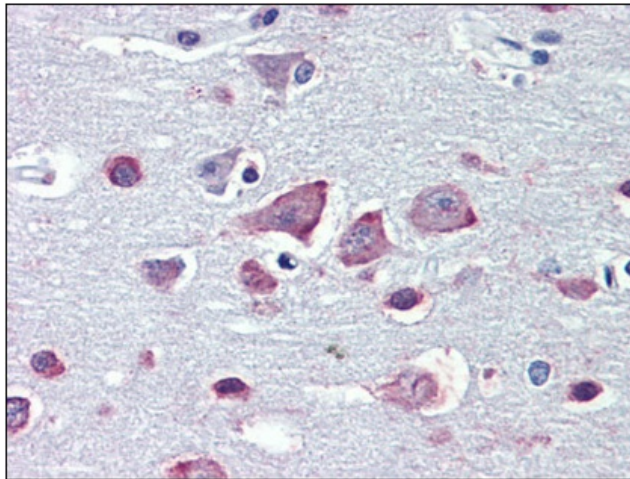
Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**


Antibody (0.1 ug/ml) staining of Human Frontal Cortex lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence



Human Brain, Cortex (formalin-fixed, paraffin-embedded) stained with GABRA4 antibody followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.