

## Product datasheet for **TA389010**

### Gabra5 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>WB Brain:</b> 1:1000
Reactivity:	Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein from the cytoplasmic loop of the $\alpha 5$ subunit of rat GABAA receptor.
Specificity:	Specific for endogenous levels of the ~55 kDa $\alpha 5$ -subunit of the GABAA receptor.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g per ml BSA and 50% glycerol.
Concentration:	lot specific
Purification:	Antigen Affinity Purified Pooled Serum
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	55
Gene Name:	gamma-aminobutyric acid type A receptor alpha 5 subunit
Database Link:	<a href="#">Entrez Gene 29707 Rat P31644</a>



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**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 (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  $\alpha$ s, four  $\beta$ s and four  $\gamma$ 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  $\alpha$ - and  $\beta$ -subunits results in the expression of functional GABA-A-Rs sensitive to GABA. However, coexpression of a  $\gamma$ -subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different  $\alpha$ -subunits of the receptor (McKernan et al., 2000; Mehta and Ticku, 1998; Ogris et al., 2004; Pörtl et al., 2003).

**Synonyms:**

MGC138184

**Note:**

Prepared from pooled rabbit serum by affinity purification using a column to which the fusion protein immunogen was coupled.