

# Anti-GABAA Receptor $\alpha$ 3 Antibody

Our Anti-GABAA Receptor  $\alpha$ 3 primary antibody from PhosphoSolutions is rabbit polyclonal. It detects m  
Catalog # AN1393

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">P20236</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	55430

## Additional Information

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<b>Gene ID</b>	24947
<b>Other Names</b>	GABA A Receptor alpha3 antibody, GABA(A) receptor subunit alpha3 antibody, GABA(A) receptor subunit alpha-3 antibody, GABR A3 antibody, GABRa3 antibody, Gabra3 antibody, Gamma aminobutyric acid (GABA) A receptor alpha3 antibody, Gamma aminobutyric acid A receptor alpha3 antibody, Gamma aminobutyric acid receptor subunit alpha3 antibody, Gamma-aminobutyric acid receptor subunit alpha-3 antibody, GBRA3_HUMAN antibody, MGC33793 antibody
<b>Target/Specificity</b>	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 $\alpha$ 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; Pötl et al., 2003).
<b>Dilution</b>	WB~~1:1000 IHC~~1:100~500
<b>Format</b>	Antigen Affinity Purified
<b>Storage</b>	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.
<b>Precautions</b>	Anti-GABAA Receptor $\alpha$ 3 Antibody is for research use only and not for use in

diagnostic or therapeutic procedures.

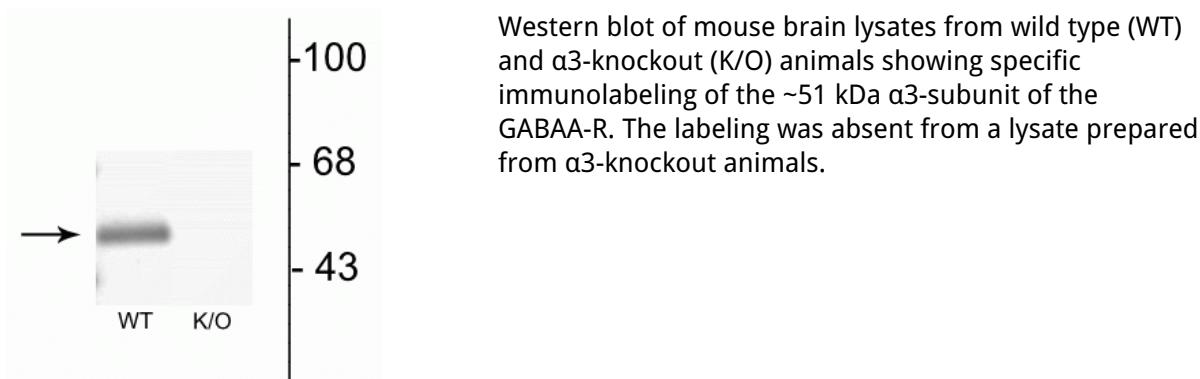
**Shipping**

Blue Ice

## 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; Pál et al., 2003).

## Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.