

## Anti-GABA B Receptor 2 Antibody (1L8)

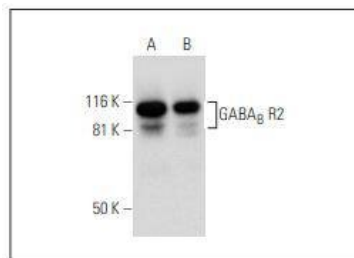
## Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 130 kDa.
Clone:	1L8
Purification:	ProA affinity purified

## Applications

## Verified Activity:

1. Western blot analysis of GABAB R2 expression in mouse brain (A) and rat brain (B) tissue extracts.



Application: IF,IP,WB

Recommended WB: 1:100-1000; IP: 1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen:	Amino acids 183-482 mapping within an extracellular domain of GABA(B) R2 of human origin
Antigen Species:	human
Uniprot ID:	O75899
Synonyms:	OTTHUMP00000021776;Gamma aminobutyric acid type B receptor subunit 2;GABABR 2; Metabotropic GABA B receptor subtype 2;Gamma-aminobutyric acid type B receptor subunit 2; Gabbr2;GPR51;GABA B R2;GABA-B receptor 2;R2 SUBUNIT;HG 20;GABA-B-R2;D Gaba2;Gb2; GPRC 3B;GABA-BR2;G-protein coupled receptor 51;OTTHUMP00000063797;Gamma aminobutyric acid B receptor 2;GAB B R2;HG20;BcDNA:GH07312;CG6706;CT20836;GPR 51; HRIHFB2099;GABA B receptor 2;GABR2_HUMAN;FLJ36928;Gb 2;GH07312;GABABR2;GABB R2; Gamma aminobutyric acid GABA B receptor 2;G protein coupled receptor 51;GABBR 2;GPRC3B; GABAB R2

## Research Background

In the central nervous system (CNS),  $\gamma$ -aminobutyric acid (GABA) is the main inhibitory neurotransmitter that functions to regulate neuronal firing. GABA exerts its effects through two different kinds of receptors: ionotropic

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receptors (GABA<sub>A</sub> R and GABA<sub>C</sub> R), which produce fast inhibitory signals, and metabotropic receptors (GABA<sub>B</sub> R), which produce slow inhibitory signals. The GABA<sub>B</sub> R receptor is a heterodimer that consists of two multi-pass membrane proteins, designated GABA<sub>B</sub> R1 and GABA<sub>B</sub> R2, both of which belong to the G protein-coupled receptor family and are highly expressed in brain tissue. Together, GABA<sub>B</sub> R1 and GABA<sub>B</sub> R2 play a crucial role in the fine-tuning of inhibitory synaptic transmissions and are implicated in slow wave sleep, muscle relaxation, hippocampal long-term potentiation and antinociception events. Both GABA<sub>B</sub> R1 and GABA<sub>B</sub> R2 are regulated by G proteins that have a variety of functions, including activation of potassium channels, inhibition of adenylyl cyclase (A cyclase) activity and modulation of inositol phospholipid hydrolysis.

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