

## Anti-GABA B Receptor 2 Antibody (7M355)

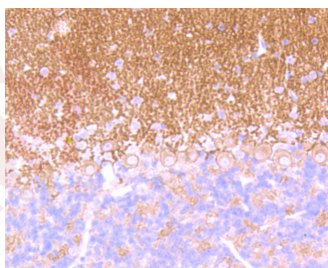
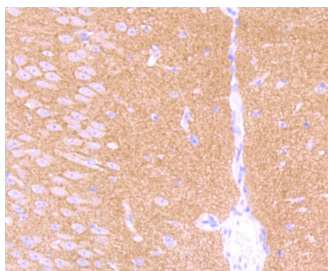
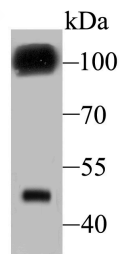
### Product Details

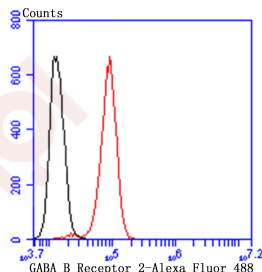
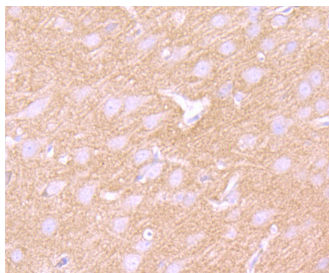
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 106 kDa.
Clone:	7M355
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of GABA B Receptor 2 on mouse cerebellum tissue lysate using anti-GABA B Receptor 2 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti- GABA B Receptor 2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue using anti-GABA B Receptor 2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti- GABA B Receptor 2 antibody. Counter stained with hematoxylin.
5. Flow cytometric analysis of SH-SY-5Y cells with GABA B Receptor 2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,ICC,IHC,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-100; FCM: 1:50-100

### 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: Recombinant Protein

Uniprot ID: Q80T41

Synonyms: GABAB R2;GABA B receptor 2;Gamma-aminobutyric acid type B receptor subunit 2;HG20; Gamma aminobutyric acid B receptor 2;CG6706;GPR51;GPRC 3B;Gb 2;GABA B R2;Gamma aminobutyric acid type B receptor subunit 2;D Gaba2;HG 20;GABABR2;Gabbr2;Gamma aminobutyric acid GABA B receptor 2;GPRC3B;OTTHUMP00000063797;GABA-B-R2;Gb2; GABR2\_HUMAN;CT20836;G protein coupled receptor 51;GABB R2;Metabotropic GABA B receptor subtype 2;GAB B R2;G-protein coupled receptor 51;BcDNA:GH07312;GABA-B receptor 2; GH07312;HRIHFB2099;R2 SUBUNIT;GPR 51;OTTHUMP00000021776;GABA-BR2;FLJ36928;GABBR 2;GABABR 2

### Research Background

In the central nervous system (CNS), gamma-aminobutyric acid (GABA) is the main main inhibitory neurotransmitter that functions to regulate neuronal firing. GABA exerts its effects through two different kinds of receptors: ionotropic receptors (GABAA R and GABAC R), which produce fast inhibitory signals, and metabotropic receptors (GABAB R), which produce slow inhibitory signals. The GABAB R receptor is a heterodimer that consists of two multi-pass membrane proteins, designated GABAB R1 and GABAB R2, both of which belong to the G protein-coupled receptor family and are highly expressed in brain tissue. Together, GABAB R1 and GABAB 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 GABAB R1 and GABAB 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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