

GABA Antibody – Rabbit Polyclonal

Ref: IS1006

The anti-GABA antibody IS1006 rabbit polyclonal antibody displays high affinity and specificity and allows direct detection of GABA in whole mounts, cell culture and tissue sections when samples are prepared using the [STAINperfect immunostaining kit A](#).

Clonality	Polyclonal antibody
Host	Rabbit
Reactivity	Reacts with all species
Tested samples	Whole mounts, cell culture, tissue sections
Staining procedure	STAINperfect immunostaining kit A
Format	50µL (approx. 40 tissue sections)
References	Cited in 2 papers

INFORMATIONS

Product overview

Product name	GABA antibody – Rabbit Polyclonal antibody
Synonyms	Anti-Gamma-Aminobutyric acid antibody
Immunogen	Conjugated GABA
Specificity	When tested in competitive ELISA, the anti-conjugated GABA antibody did not show any significant cross reactivity with Gamma-Aminobutyric acid analogs, including Beta-Alanine and D-Alanine
Volume	50µL

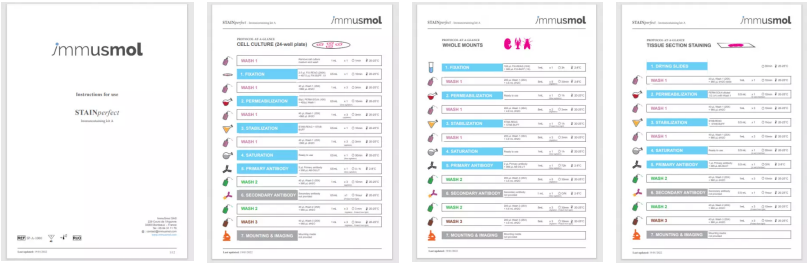
Storage

Form	Liquid
Purity	Purified anti-serum
Storage	Store at +4°C for short term (1-2 months). Aliquot and store at -20°C for long term. Avoid repeated freeze / thaw cycles
Material safety datasheet	Download MSDS

PROTOCOLS

IF - Cell cultures, Whole mounts, Tissue sections	Dilute antibody with the antibody diluent provided in the STAINperfect immunostaining kit A . Use at 1/250 -1/1000 dilution. Follow the STAINperfect protocol suited to your sample
Comments	Optimal working dilutions must be determined by the end-user
Restrictions	For research use only
Full protocol	Download STAINperfect protocol for GABA staining

Protocols-at-a-glance

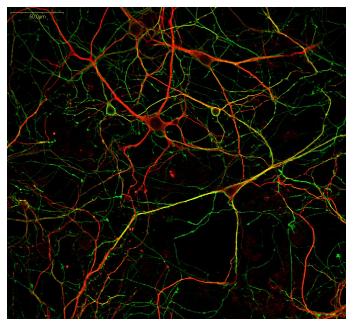


- [Complete Instructions for Use](#)
- [Protocol-at-a-glance for cell cultures](#)
- [Protocol-at-a-glance for whole mounts](#)
- [Protocol-at-a-glance for tissue sections](#)

REFERENCES

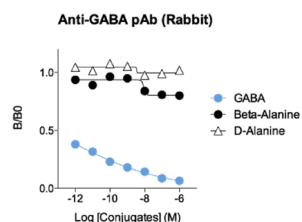
Product citations

Product pictures



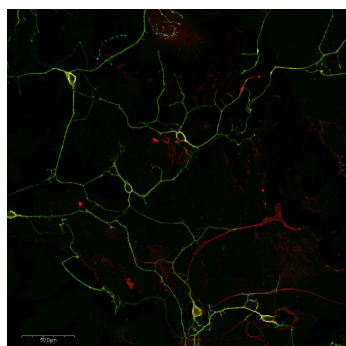
GABA labeling (green) in mouse cortical primary neurons

Immunodetection of GABA- (green) and MAP2- (red) positive neurons in mouse primary cortical culture. GABAergic neurons were stained using IS1006 anti-GABA antibody combined with MAP2 antibody using the stainperfect immunostaining kit A and appropriate protocol, respectively. Alexa fluor 488 and 546 secondary antibodies were used and pictures were captured by high-content imaging.



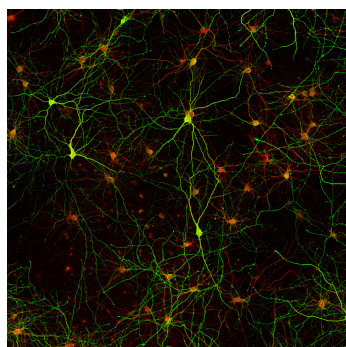
Affinity & specificity of anti-GABA antibody

Competitive ELISA demonstrates that low amounts of GABA conjugate are required to abolish antigen-antibody reaction (high affinity), while rising concentrations of β -Alanine and D-Alanine conjugates do not affect reaction (high specificity).



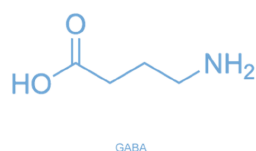
L-Glutamate and GABA in adult mouse primary cortical neurons

Adult mouse primary cortical neurons were stained with mouse monoclonal anti-L-glutamate antibody (red) combined with anti-GABA rabbit polyclonal antibody (green). Staining was performed using optimized sample preparation with STAINperfect immunostaining kit A and according to the protocol for cell culture. Fluorescent labeled secondary antibody were used and pictures were acquired by confocal imaging.

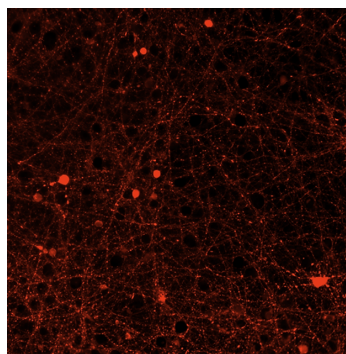


GABA labeling (green) in rat cortical primary neurons

Immunodetection of GABA- (green) and MAP2- (red) positive neurons in rat primary cortical culture. Total and GABAergic neurons were stained using an anti-MAP2 antibody and IS anti-GABA antibody combined with the stainperfect immunostaining kit A and appropriate protocol, respectively. Alexa fluor 546 and 488 secondary antibodies were used and pictures were captured by high-content imaging.

Gamma-aminobutyric acid (GABA)

In the mammalian brain, inhibitory neurotransmitter Gamma-aminobutyric acid (GABA) is mainly synthesized from excitatory L-Glutamate by enzyme glutamic acid decarboxylase (GAD). Regulating neuronal excitability, GABAergic synapses are present throughout the CNS, although GABA is found most highly concentrated in the substantia nigra, the globus pallidus nuclei, the hypothalamus, the periaqueductal grey matter and the hippocampus.

**GABAergic neuronal network**

Contact information

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To order, review, ask for technical support, visit product page at:

<https://www.immusmol.com/shop/gaba-rabbit-pab/>