GABA Antibody – Chicken Polyclonal

Ref: IS1036

The anti-GABA antibody IS1036 is a **chicken** polyclonal antibody developed for its superior affinity and specificity but also to work in multiplex staining with rabbit polyclonal or mouse monoclonal antibodies. Combined with the <u>STAINperfect immunostaining kit A</u> for samples preparation, this antibody allows visualization of GABA in whole mounts, cell cultures and tissue sections.

Clonality	Polyclonal	
Host	Chicken	
Eligible samples	Whole mounts, cell culture, tissue sections	
Reactivity	Reacts with all species	
Staining procedure	STAINperfect immunostaining kit A	
Format	50μL (approx. 40 tissue sections)	
References	Cited in 5 papers	

INFORMATIONS

Product overview

Product name	GABA antibody – Chicken pAb
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 $+4^{\circ}$ 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

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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

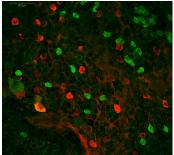
Product citations

Product pictures



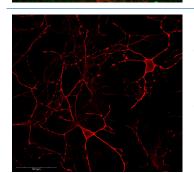
GABA and L-Serine in mouse primary neurons culture

Primary mouse cortical neurons were stained using anti-GABA chicken polyclonal antibody (red) and anti-L-Serine polyclonal rabbit antibody (green) using the STAINperfect immunostaining kit A and according to the optimized protocol for cell culture. Co-immunostaining appears in yellow. Alexa fluor 546 and 488 conjugated secondary antibodies respectively were used and picture obtained by confocal imaging.



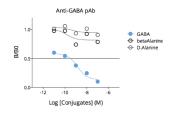
GABA and Dopamine immunostaining in crayfish eyetalk

Using STAINperfect immunostaining kit A, the anti-GABA (red)chicken polyclonal antibody (IS1036) combined with anti-dopamine (green) rabbit polyclonal antibody (IS1005) demonstrate the presence of GABA and dopamine in crayfish eyetalk. The staining was performed according to the protocol optimized for whole-mount samples. Fluorescent labeled secondary antibodies were used and image obtained by fluorescence imaging.



GABA immunostaining in mouse cortical primary neurones

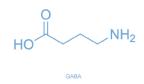
Primary mouse cortical neurons were stained using anti-GABA chicken polyclonal antibody and the STAINperfect immunostaining kit A according to the optimized protocol for cell culture. Alexa fluor 546 conjugated secondary antibody was used and picture obtained by confocal imaging.



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 GABA competitors beta Alanine or D-Alanine do not affect reaction (high specificity).

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 subtantia nigra, the globus pallidus nuclei, the hypothalamus, the periaqueductal grey matter and the hyppocampus.

Contact information

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

https://www.immusmol.com/shop/gaba-chicken-pab/