

## GABA Rabbit pAb

Catalog Number: bs-2252R

Target Protein: GABA

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Rat (predicted:GABA)

Predicted MW: 0.1031 kDa

Subcellular: Secreted ,Cell membrane ,Cytoplasm

Locations:

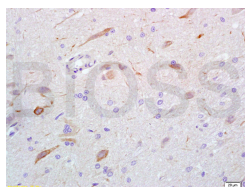
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

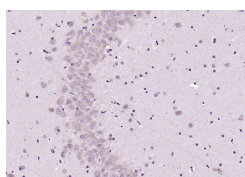
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Gamma-aminobutyric acid (GABA) is a major inhibitory neurotransmitter. GABA acts at inhibitory synapses in the brain and spinal cord. Inhibition is provoked by GABA binding resulting in hyperpolarization of the synaptic transmembrane potential of the affected neuron. GABA binding causes ion channels to open allowing either the flow of chloride or potassium ions into or out of the cell.

### VALIDATION IMAGES



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-GABA Polyclonal Antibody, Unconjugated(bs-2252R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GABA) Polyclonal Antibody, Unconjugated (bs-2252R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=9.3] Wang Lu-Ying. et al. NLRP3–GABA signaling pathway contributes to the pathogenesis of impulsive-like behaviors and cognitive deficits in aged mice. J NEUROINFLAMM. 2023 Dec;20(1):1-15 IF ; Mouse . 37434240

[IF=7.9] Dong-Xue Zhang. et al. Icariin mitigates anxiety-like behaviors induced by hemorrhagic shock and resuscitation via inhibiting of astrocytic activation. PHYTOMEDICINE. 2024 Jun;128:155507 IF ; Mouse . 38552430

[IF=5.25] Li-Min Zhang. et al. Subanesthetic dose of S-ketamine improved cognitive dysfunction via the inhibition of hippocampal astrocytosis in a mouse model of post-stroke chronic stress. J PSYCHIATR RES. 2023 Feb;158:1 IF ; Mouse . 36542981

[IF=5.4] Taotao Li. et al. Rosemary (*Rosmarinus officinalis* L.) hydrosol based on serotonergic synapse for insomnia. J ETHNOPHARMACOL. 2023 Jul;:116984 IHC,WB ; Rat . 37532071

[IF=3.5] Peng Ren. et al. Activation of  $\sigma$ -1 receptor mitigates estrogen withdrawal-induced anxiety/depressive-like behavior in mice via restoration of GABA/glutamate signaling and neuroplasticity in the hippocampus. J PHARMACOL SCI. 2024 Feb;: IF ; Mouse . 38485341