

Anti-GABRA1 Polyclonal Antibody

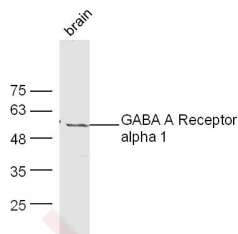
Product Details

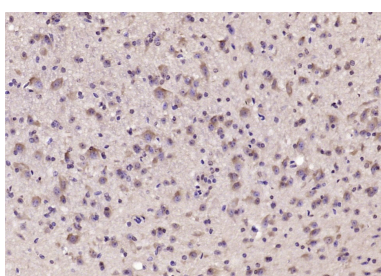
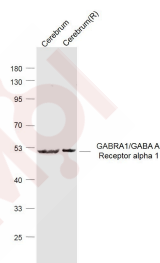
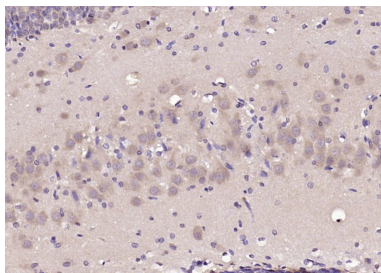
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Cow,Horse)
Molecular Weight:	Theoretical: 52 kDa. Actual: 52 kDa.
Purification:	Protein A purified

Applications

1. Sample: Brain (Mouse) Lysate at 40 µg
Primary: Anti-GABA A Receptor (TMAB-00729) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
2. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GABRA1 GABA A Receptor alpha 1) Polyclonal Antibody, Unconjugated (TMAB-00729) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Sample:
Cerebrum (Mouse) Lysate at 40 µg
Cerebellum (Rat) Lysate at 40 µg
Primary: Anti-GABRA1/GABA A Receptor alpha 1 (TMAB-00729) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
4. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GABRA1 GABA A Receptor alpha 1) Polyclonal Antibody, Unconjugated (TMAB-00729) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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: KLH conjugated synthetic peptide: human GABRA1

Antigen Species: Human

Gene ID: 2554

Uniprot ID: P14867

Synonyms: GABRA1;Gamma-aminobutyric acid receptor subunit alpha-1;GABA(A) receptor subunit alpha-1 (GABAAR subunit alpha-1)

Research Background

GAD-65 and GAD-67, glutamate decarboxylases, function to catalyze the production of GABA (g-aminobutyric acid). In the central nervous system GABA functions as the main inhibitory transmitter by increasing a Cl⁻ conductance that inhibits neuronal firing. GABA has been shown to activate both ionotropic (GABAA) and metabotropic (GABAB) receptors as well as a third class of receptors called GABAC. Both GABAA and GABAC are ligand-gated ion channels, however, they are structurally and functionally distinct. Members of the GABAA receptor family include GABAA R alpha 1-6, GABAA R beta 1-3, GABAA R γ 1-3, GABAA R δ , GABAA R gamma, GABAA R delta 1 and GABAA R delta 2. The GABAB family is composed of GABAB R1 alpha and GABAB R1 beta. GABA transporters have also been identified and include GABA T-1, GABA T-2 and GABA T-3 (also designated GAT-1, -2 and -3). The GABA transporters function to terminate GABA action.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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