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GABRG3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4800a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99928
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23940
Calculated MW	54289
Antigen Region	1-29

Additional Information

Gene ID	2567
Other Names	Gamma-aminobutyric acid receptor subunit gamma-3, GABA(A) receptor subunit gamma-3, GABRG3
Target/Specificity	This GABRG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-29 amino acids from the N-terminal region of human GABRG3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GABRG3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GABRG3 (HGNC:4088)
Function	Gamma subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory

neurotransmitter in the brain (By similarity). GABA-gated chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits arranged around a central pore and contain GABA active binding site(s) located at the alpha and beta subunit interface(s) (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride across the cell membrane down their electrochemical gradient (By similarity).

Cellular Location Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

Tissue Location Expressed in brain..

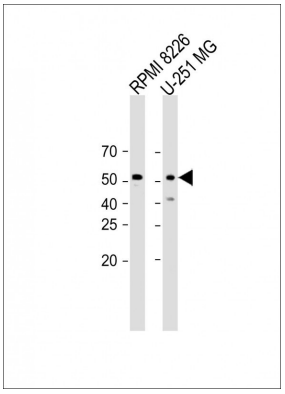
Background

GABRG3 is a family of proteins involved in the GABAergic neurotransmission of the mammalian central nervous system. GABRG3 is a member of the GABA-A receptor gene family of heteromeric pentameric ligand-gated ion channels through which GABA, the major inhibitory neurotransmitter in the mammalian brain, acts. GABA-A receptors are the site of action of a number of important pharmacologic agents including barbiturates, benzodiazepines, and ethanol (summary by Whiting et al., 1999 [PubMed 10414349]). For additional general information about the GABA-A receptor gene family, see GABRA1 (MIM 137160).

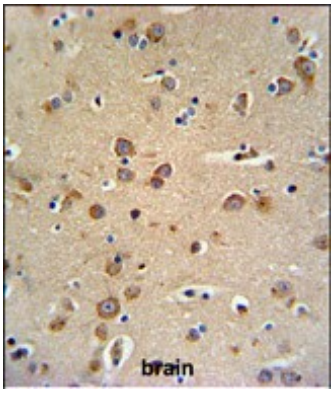
References

Guilmatre, A., et al. Arch. Gen. Psychiatry 66(9):947-956(2009)
Chakrabarti, B., et al. Autism Res 2(3):157-177(2009)
Tabakoff, B., et al. BMC Biol. 7, 70 (2009)

Images

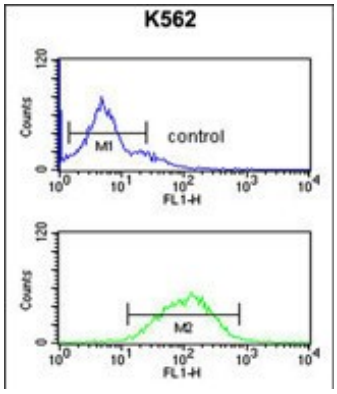


All lanes : Anti-GABRG3 Antibody (N-term) at 1:1000 dilution Lane 1:RPMI 8226 whole cell lysate Lane 2: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 54kDa Blocking/Dilution buffer: 5% NFDM/TBST.



GABRG3 Antibody (N-term) (Cat. #AP4800a) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GABRG3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

GABRG3 Antibody (N-term) (Cat. #AP4800a) flow cytometric analysis of K562 cells (bottom histogram)



compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.