10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GABRG3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4800a

Specification

GABRG3 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q99928
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**54289**
Antigen Region	**1-29**

GABRG3 Antibody (N-term) - 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~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

GABRG3 Antibody (N-term) - 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

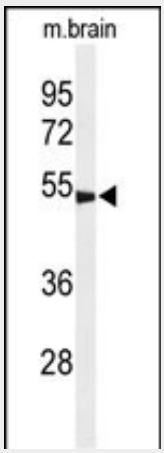
Tissue Location
Expressed in brain..

GABRG3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GABRG3 Antibody (N-term) - Images



Western blot analysis of GABRG3 Antibody (N-term) (Cat. #AP4800a) in mouse brain tissue lysates (35ug/lane). GABRG3 (arrow) was detected using the purified Pab.

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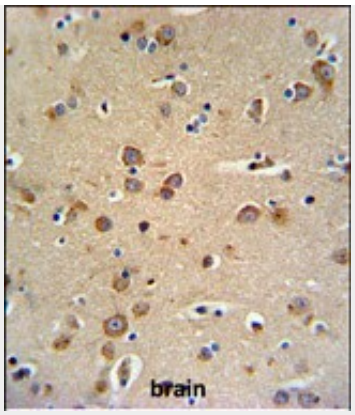
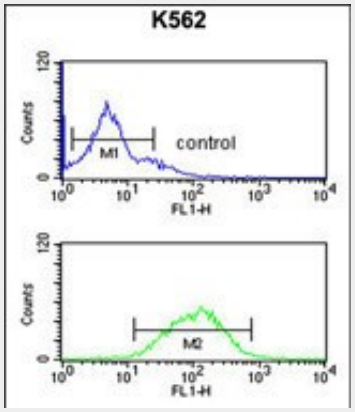


GABRG3 Antibody (N-term) (Cat. #AP4800a) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GABRG3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not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

GABRG3 Antibody (N-term) - 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).

GABRG3 Antibody (N-term) - 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)