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Anti-GABRG1 Antibody

Rabbit polyclonal antibody to GABRG1
Catalog # AP60764

Product Information

Application	WB, IHC
Primary Accession	Q8N1C3
Other Accession	Q9R0Y8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53595

Additional Information

Gene ID	2565
Other Names	Gamma-aminobutyric acid receptor subunit gamma-1; GABA(A) receptor subunit gamma-1
Target/Specificity	Recognizes endogenous levels of GABRG1 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

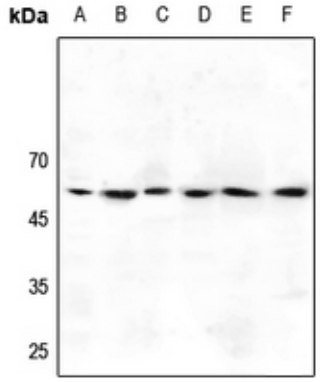
Name	GABRG1 (HGNC:4086)
Function	Gamma subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:10449790). GABA-gated chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits 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 anions across the cell membrane down their electrochemical gradient (PubMed:10449790). Chloride influx into the postsynaptic neuron following GABAAR opening decreases the neuron ability to generate a new action potential, thereby reducing nerve transmission (By similarity). Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane;

Cellular Location Multi-pass membrane protein

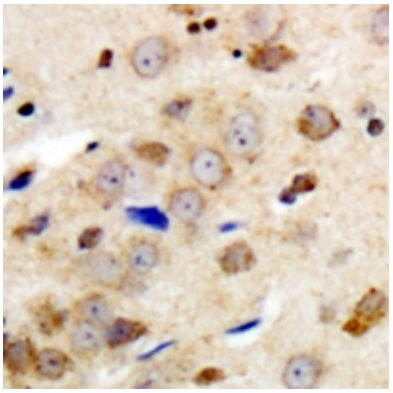
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GABRG1. The exact sequence is proprietary.

Images



Western blot analysis of GABRG1 expression in HEK293T (A), LOVO (B), Hela (C), mouse brain (D), mouse kidney (E), rat kidney (F) whole cell lysates.



Immunohistochemical analysis of GABRG1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.