

**Anti-GABRG1 Antibody**  
Rabbit polyclonal antibody to GABRG1  
Catalog # AP60764

### Specification

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#### Anti-GABRG1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O8N1C3</a>
Other Accession	<a href="#">O9R0Y8</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53595

#### Anti-GABRG1 Antibody - 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), IH (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

#### Anti-GABRG1 Antibody - 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:<a href="http://www.uniprot.org/citations/10449790" target="\_blank">10449790</a>). 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:<a href="http://www.uniprot.org/citations/10449790" target="\_blank">10449790</a>). 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).

#### Cellular Location

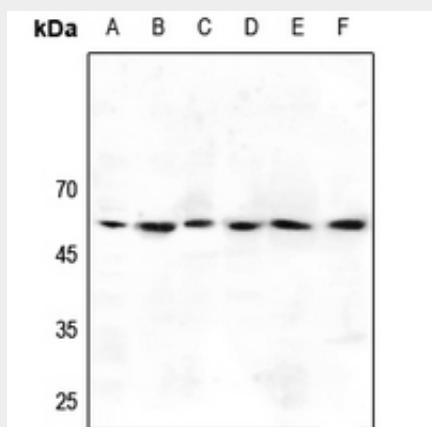
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

#### Anti-GABRG1 Antibody - Protocols

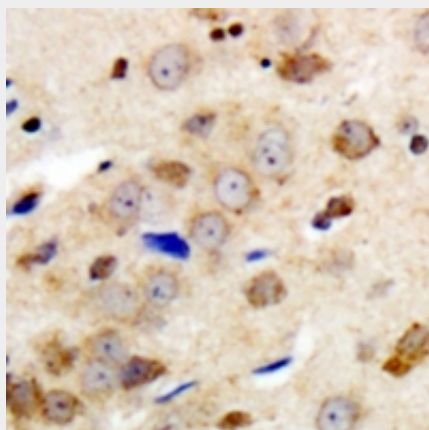
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-GABRG1 Antibody - 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.

#### **Anti-GABRG1 Antibody - Background**

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