

# Product datasheet for AP06130PU-M

## GAD67 (GAD1) Rabbit Polyclonal Antibody

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 460-514 of Human GAD-67.
Specificity:	The antibody detects endogenous levels of GAD67 protein. (region surrounding Ala492)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified lg fraction Preservative: 0.05% Sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS- PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 67 kDa
Gene Name:	glutamate decarboxylase 1
Database Link:	<u>Entrez Gene 2571 Human</u> <u>Q99259</u>



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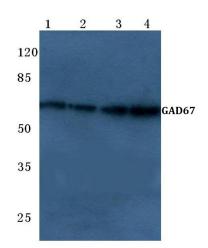
#### GAD67 (GAD1) Rabbit Polyclonal Antibody – AP06130PU-M

Background: GAD-65 and GAD-67 are members of the group II decarboxylase family of proteins and are responsible for catalyzing the rate limiting step in the production of GABA (γ-aminobutyric acid) from L-glutamic acid. Although both GADs are found in the brain, GAD-65 localizes to synaptic vesicle membranes in nerve terminals, while GAD-67 is distributed throughout the cell. GAD-67 is responsible for the basal levels of GABA synthesis. In the case of a heightened demand for GABA in neurotransmission, GAD-65 will transiently activate to assist in GABA production. The loss of GAD-65 is detrimental and can impair GABA neurotransmission, however the loss of GAD-67 is lethal. Due to alternative splicing, two isoforms exist for GAD-67: the predominant GAD-67 form and the minor GAD-25 form.

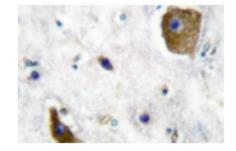
Synonyms:

Glutamate decarboxylase 1, GAD-67

### **Product images:**



Western blot (WB) analysis of GAD67 antibody at 1/500 dilution Lane 1:A549 cell lysate Lane 2:SP2/0 cell lysate Lane 3:PC12 cell lysate Lane 4:MCF-7 cell lysate



Immunohistochemistry analysis of GAD67 antibody in paraffin-embedded human brain tissue.

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