

**GAD1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50607**

**Specification**

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**GAD1 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O99259</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>67,25,47 KDa</b>
Antigen Region	<b>481-509</b>

**GAD1 Antibody - Additional Information**

**Gene ID** 2571

**Other Names**

Glutamate decarboxylase 1, 67 kDa glutamic acid decarboxylase, GAD-67, Glutamate decarboxylase 67 kDa isoform, GAD1, GAD, GAD67

**Dilution**

WB~~1:1000  
IHC~~1:50-1:100

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**GAD1 Antibody - Protein Information**

**Name** GAD1 ([HGNC:4092](#))

**Synonyms** GAD, GAD67

**Function**

Catalyzes the synthesis of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA) with pyridoxal 5'-phosphate as cofactor.

**Tissue Location**

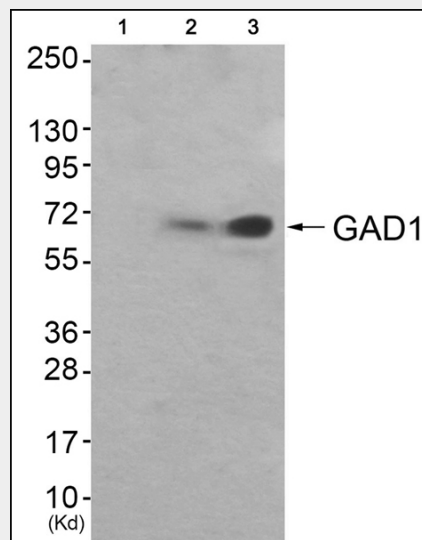
[Isoform 1]: Expressed in brain.

## GAD1 Antibody - Protocols

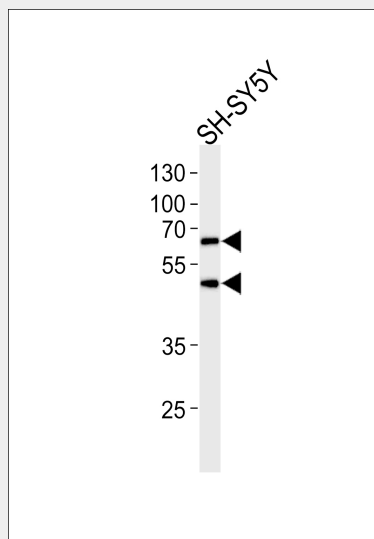
Provided below are standard protocols that you may find useful for product applications.

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

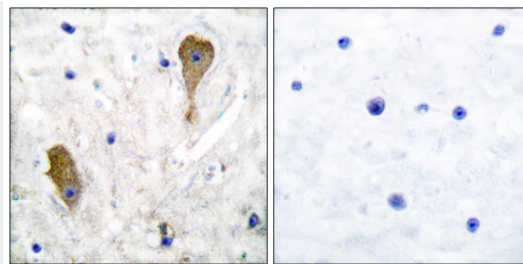
## GAD1 Antibody - Images



Western blot analysis of extracts from A549 cells (Lane 2) and HepG2 cells (Lane 3), using GAD1 Antibody. The lane on the left is treated with synthesized peptide.



Western blot analysis of lysate from SH-SY5Y cell line, using GAD1 Antibody (AP50607). AP50607 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue using GAD67 antibody.

### **GAD1 Antibody - Background**

Catalyzes the production of GABA.

### **GAD1 Antibody - References**

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Kelly C.D.,et al.Lancet 338:1468-1469(1991).

Kelly C.D.,et al.Ann. Hum. Genet. 56:255-265(1992).

Yamashita K.,et al.Biochem. Biophys. Res. Commun. 192:1347-1352(1993).