

## GAD67 polyclonal antibody

Catalog: BS90553

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

There are two forms of glutamic acid decarboxylases (GADs) that are found in the brain: GAD-65 (also known as GAD2) and GAD-67 (also known as GAD1, GAD or SCP). 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 (g-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. GAD-25 is not expressed in brain but can be found in a variety of endocrine tissues.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

67 kDa

### Swiss-Prot:

Q99259(Human) P48318(Mouse) P18088(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:500-1:1,000

IP:1:50-1:100

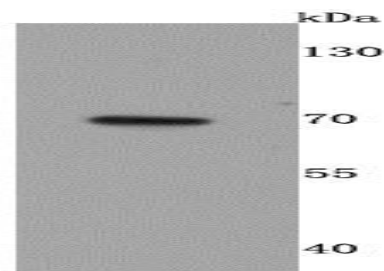
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

GAD67 polyclonal antibody detects endogenous levels of GAD67 protein.

### DATA:



Western blot analysis of GAD67 on HeLa cells lysates using anti-GAD67 antibody at 1/500 dilution.

### Note:

For research use only, not for use in diagnostic procedure.

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