



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Expressversand

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# GAD-67 (m): 293T Lysate: sc-126883

## 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 ( $\gamma$ -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.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Gad1 (mouse) mapping to 2 C2.

## PRODUCT

GAD-67 (m): 293T Lysate represents a lysate of mouse GAD-67 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

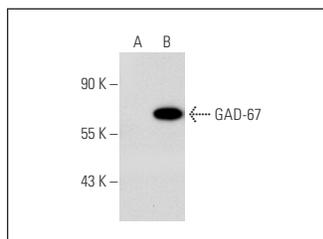
## APPLICATIONS

GAD-67 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GAD-67 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GAD-67 (F-6): sc-28376 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GAD-67 expression in GAD-67 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## DATA



GAD-67 (F-6): sc-28376. Western blot analysis of GAD-67 expression in non-transfected: sc-117752 (A) and mouse GAD-67 transfected: sc-126883 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.