

GAD67 Rabbit mAb

Catalog No: #49484

Package Size: #49484-1 50ul #49484-2 100ul



Signalway Antibody

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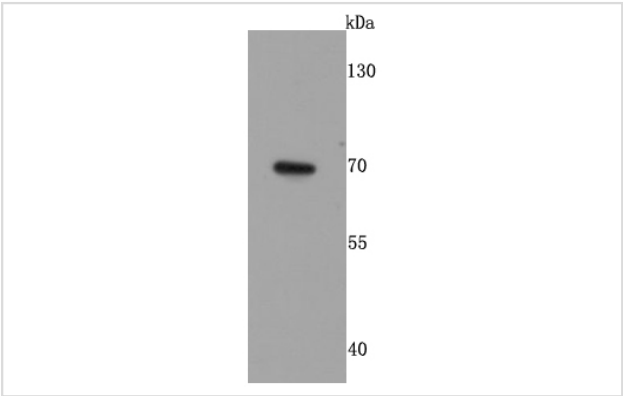
Description

Product Name	GAD67 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JM11-11
Purification	ProA affinity purified
Applications	WB, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	67 kDa glutamic acid decarboxylase antibody CPSQ1 antibody DCE1 antibody DCE1_HUMAN antibody EC 4.1.1.15 antibody FLJ45882 antibody GAD 67 antibody GAD antibody GAD-67 antibody GAD1 antibody Glutamate decarboxylase 1 (brain, 67kDa) antibody Glutamate decarboxylase 1 antibody Glutamate decarboxylase 1 brain 67kD antibody Glutamate decarboxylase 1 brain 67kDa antibody Glutamate decarboxylase 67 kDa isoform antibody Glutamate decarboxylase, brain, 67-KD antibody OTTHUMP00000041055 antibody SCP antibody
Accession No.	Swiss-Prot#:Q99259
Calculated MW	67 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:1,000 IP: 1:50-1:100

Images



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

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.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.