# **Product Datasheet**

# GAD1/GAD67 Antibody (GAD1/2563) [Janelia Fluor® 525] NBP2-79937JF525

Unit Size: 0.1 ml

Store at 4C in the dark.

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# NBP2-79937JF525

GAD1/GAD67 Antibody (GAD1/2563) [Janelia Fluor® 525]

563) [Janella Fluor® 525]
0.1 ml
Please see the vial label for concentration. If unlisted please contact technical services.
Store at 4C in the dark.
Monoclonal
GAD1/2563
0.05% Sodium Azide
IgG2b Kappa
Janelia Fluor 525
Protein A or G purified
50mM Sodium Borate
Mouse
2571
GAD1
Human
GABAergic Neuronal Marker
This monoclonal antibody recognizes a protein of 67kDa, which is identified as glutamic acid decarboxylase 1 (GDA1). There are two forms of glutamic acid
decarboxylases (GADs) that are found in the brain: GAD65 (also known as GAD2) and GAD67 (also known as GAD1. GAD65 and GAD67 are members of the group II decarboxylase family of proteins and are responsible for catalyzing the rate-limiting step in the production of GABA (-aminobutyric acid) from L-glutamic acid. Although both GADs are found in the brain, GAD65 localizes to synaptic vesicle membranes in nerve terminals, while GAD67 is distributed throughout the cell. GAD67 is responsible for the basal levels of GABA synthesis. In the case of a heightened demand for GABA in neurotransmission, GAD65 will transiently activate to assist in GABA production. The loss of GAD65 is detrimental and can impair GABA neurotransmission, however the loss of GAD67 is lethal.
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### Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112

USA

Phone: 303.730.1950 Toll Free: 1.888.506.6887

Fax: 303.730.1966

nb-customerservice@bio-techne.com

#### **Bio-Techne Canada**

21 Canmotor Ave Toronto, ON M8Z 4E6

Canada

Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402

canada.inquires@bio-techne.com

#### **Bio-Techne Ltd**

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449

Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

#### **General Contact Information**

www.novusbio.com

Technical Support: nb-technical@bio-

techne.com

Orders: nb-customerservice@bio-techne.com

General: novus@novusbio.com

## Products Related to NBP2-79937JF525

NBP2-51849-0.1mg Recombinant Human GAD1/GAD67 His Protein

DBD00 BDNF [HRP]

NBP2-67964 Human GAD1/GAD67 ELISA Kit (Chemiluminescence)

NB300-109 Tyrosine Hydroxylase Antibody

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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