

# Product Datasheet

## **GAD1/GAD67 Antibody (GAD1/2391) [Alexa Fluor® 647] NBP3-08276AF647**

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP3-08276AF647**

GAD1/GAD67 Antibody (GAD1/2391) [Alexa Fluor® 647]

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	GAD1/2391
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Conjugate</b>	Alexa Fluor 647
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	2571
<b>Gene Symbol</b>	GAD1
<b>Species</b>	Human
<b>Marker</b>	GABAergic Neuronal Marker
<b>Specificity/Sensitivity</b>	This monoclonal antibody recognizes a protein of 67kDa, which is identified as glutamic acid decarboxylase 1 (GAD1). 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.
<b>Immunogen</b>	Recombinant human GAD1/GAD67 protein fragment (around aa 72-135) (exact sequence is proprietary) (Uniprot: Q99259)

<b>Notes</b>	<p>Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a>. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.</p>
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<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry-Paraffin, Protein Array
<b>Recommended Dilutions</b>	Western Blot, ELISA, Immunohistochemistry-Paraffin, Protein Array
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





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### **Products Related to NBP3-08276AF647**

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IC002R	Mouse IgG1 Isotype Control (11711) [Alexa Fluor® 647]
NBP2-51849-0.1mg	Recombinant Human GAD1/GAD67 His Protein
DBD00	BDNF [HRP]
NBL1-10933	GAD1/GAD67 Overexpression Lysate

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### **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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