

# Product Datasheet

## GAD2/GAD65 Antibody NBP1-33284

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP1-33284**

## GAD2/GAD65 Antibody

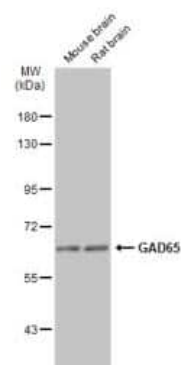
Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Target Molecular Weight</b>	65 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit GAD2/GAD65 Antibody (NBP1-33284) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-GAD2/GAD65 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2572
<b>Gene Symbol</b>	GAD2
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Zebrafish (86%).
<b>Marker</b>	GABAergic Neuronal Marker
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the C-terminus region of human GAD2/GAD65. The exact sequence is proprietary.

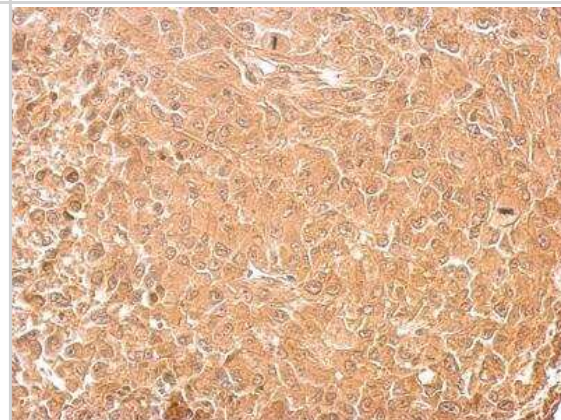
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

## Images

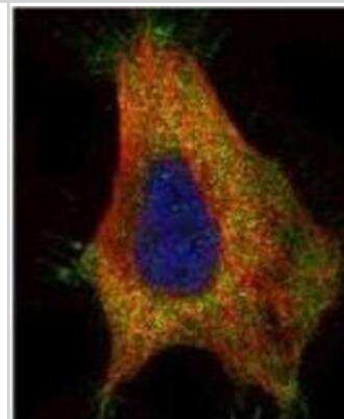
Western Blot: GAD2/GAD65 Antibody [NBP1-33284] - Various tissue extracts (50 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with GAD65 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



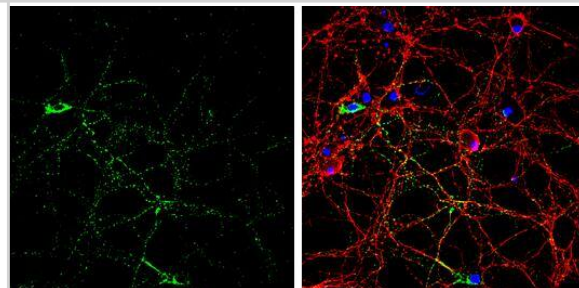
Immunohistochemistry-Paraffin: GAD2/GAD65 Antibody [NBP1-33284] - RT2 xenograft. GAD65 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Immunocytochemistry/Immunofluorescence: GAD2/GAD65 Antibody [NBP1-33284] - Paraformaldehyde-fixed HeLa, using GAD65 antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with Red at 1:2500.



GAD65 antibody detects GAD65 protein by immunofluorescent analysis. Sample: DIV9 rat E18 primary hippocampal neuron cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: GAD65 stained by GAD65 antibody (NBP1-33284) diluted at 1:500. Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin 3/ Tuj1 antibody [GT11710] diluted at 1:500. Blue: Fluoroshield with DAPI .



## Publications

Michalettos G, Walter HL, Antunes ARP Et al. Effect of Anti-inflammatory Treatment with AMD3100 and CX3CR1 Deficiency on GABAA Receptor Subunit and Expression of Glutamate Decarboxylase Isoforms After Stroke Molecular neurobiology 2021-08-20 [PMID: 34417725] (WB, Mouse)

Cai Y, Yang L, Hu G et al. Regulation of morphine-induced synaptic alterations: Role of oxidative stress, ER stress, and autophagy. J. Cell Biol. 2016-10-24 [PMID: 27810915] (WB, Rat)

Grigoryan G, Segal M. Prenatal Stress Affects Network Properties of Rat Hippocampal Neurons Biol Psychiatry 2013-03-26 [PMID: 23541001] (ICC/IF, Rat)





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### **Products Related to NBP1-33284**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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