

For Research Use Only

# GAD65 Polyclonal antibody

Catalog Number: 20746-1-AP **14 Publications**



## Basic Information

<b>Catalog Number:</b> 20746-1-AP	<b>GenBank Accession Number:</b> NM_000818	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 750 µg/ml by Nanodrop and 547 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2572	<b>Recommended Dilutions:</b> WB 1:3000-1:20000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)	<b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 65 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

<b>Tested Applications:</b> IF, IP, WB, ELISA	<b>Positive Controls:</b> WB: mouse brain tissue, rat brain tissue IP: mouse brain tissue, IF: HeLa cells,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	

## Background Information

GAD2, also named as GAD65, belongs to the group II decarboxylase family. GAD2 catalyzes the production of GABA. It is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid. GAD2 is expressed in nervous and endocrine systems and are thought to be involved in synaptic transmission and INS secretion. Autoantibodies against GAD2 may serve as markers for type I diabetes. Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2. The antibody is specific to GAD2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yueqin Liu	33344711	Neurobiol Stress	WB
Hongru Yang	35618610	Adv Sci (Weinh)	WB
Ken Chen	31015358	Clin Sci (Lond)	IHC

## Storage

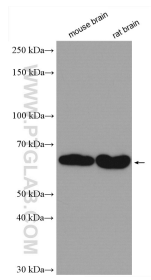
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

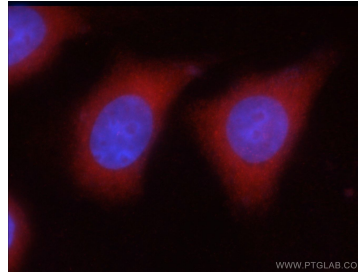
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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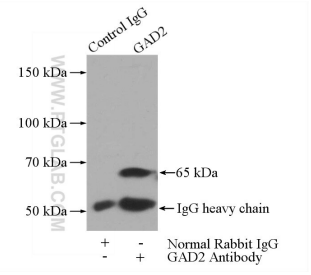
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20746-1-AP (GAD65 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 20746-1-AP (GAD65 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP Result of anti-GAD65 (IP:20746-1-AP, 4ug; Detection:20746-1-AP 1:1000) with mouse brain tissue lysate 3440ug.