

For Research Use Only

# GAD65 Polyclonal antibody

Catalog Number: 20746-1-AP

22 Publications



## Basic Information

Catalog Number:

20746-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 547 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000818

GeneID (NCBI):

2572

UNIPROT ID:

Q05329

Full Name:

glutamate decarboxylase 2  
(pancreatic islets and brain, 65kDa)

Calculated MW:

65 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:3000-1:20000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

## 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
Yinrui Guo	34045460	Transl Psychiatry	
Hongru Yang	35618610	Adv Sci (Weinh)	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

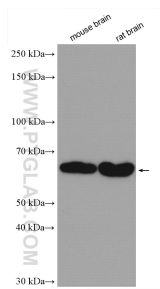
For technical support and original validation data for this product please contact:

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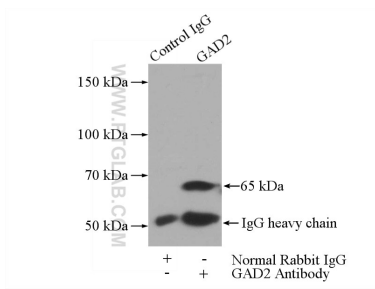
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## Selected Validation Data



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.



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