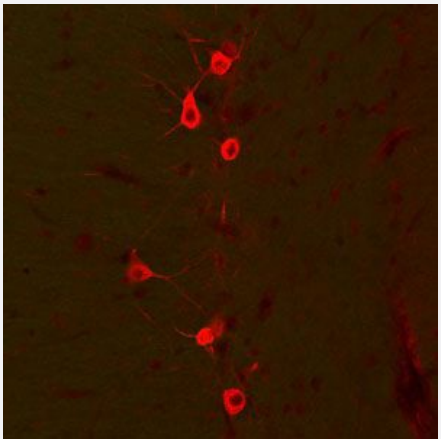
GAD1 polyclonal antibody

Catalog # PAB29073 Size 100 ug

Applications



The antibody was analyzed by immunocytological staining (at a dilution of 1:1000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution) as the secondary reagent.
A tissue section through an adult mouse brain showing GAD1 (red staining) in basket cells of the hippocampal formation. Green staining is autofluorescence from GFP expressed in this transgenic mouse.

Specification

Product Description	Chicken polyclonal antibody raised against recombinant Human GAD1.
Immunogen	A KLH-conjugated synthetic peptide corresponding to a region near the C-terminus of GAD1 gene product, and was 100% conserved between the human (Q99259, NCBI), mouse (P48318, NCBI) and rat (NP_058703, NCBI) gene products.
Host	Chicken
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgY
Quality Control Testing	Immunocytochemistry The antibody was analyzed by immunocytological staining (at a dilution of 1:1000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution) as the secondary reagent. A tissue section through an adult mouse brain showing GAD1 (red staining) in basket cells of the hippocampal formation. Green staining is autofluorescence from GFP expressed in this transgenic mouse.

Recommend Usage	Immunocytochemistry(1:1000-1:2000) Immunohistochemistry(1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.02% sodium azide)
Storage Instruction	Store at 4°C and avoid from light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunocytochemistry

Gene Info — GAD1

Entrez GeneID	2571
Protein Accession#	Q99259
Gene Name	GAD1
Gene Alias	FLJ45882, GAD, SCP
Gene Description	glutamate decarboxylase 1 (brain, 67kDa)
Omim ID	603513 605363
Gene Ontology	Hyperlink
Gene Summary	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major aut oantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the pro duction of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autor eactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizu res. Alternative splicing of this gene results in two products, the predominant 67-kD form and a les s-frequent 25-kD form. [provided by RefSeq
Other Designations	OTTHUMP00000041055|glutamate decarboxylase 1|glutamate decarboxylase 1 (brain, 67kD)

Gene Info — Gad1

Entrez GeneID	14415
Protein Accession#	Q99259
Gene Name	Gad1
Gene Alias	EP10, GAD25, GAD44, GAD67, Gad-1
Gene Description	glutamic acid decarboxylase 1
Gene Ontology	Hyperlink
Gene Summary	67 KD ISOFORM (GAD-67) (67 KD GLUTAMIC ACID DECARBOXYLASE)
Other Designations	GLUTAMATE DECARBOXYLASE, 67 KD ISOFORM (GAD-67) (67 KD GLUTAMIC ACID DEC ARBOXYLASE)

Gene Info — Gad1

Entrez GeneID	24379
Protein Accession#	Q99259
Gene Name	Gad1
Gene Alias	Gad67
Gene Description	glutamate decarboxylase 1
Gene Ontology	Hyperlink
Other Designations	Glutamate decarboxylase 1 (brain)|glutamate decarboxylase 1 variant GAD67NT|glutamate decar boxylase 67 kDa isoform|glutamic acid decarboxylase 1

Pathway

- Alanine
- beta-Alanine metabolism
- Butanoate metabolism
- Metabolic pathways
- Taurine and hypotaurine metabolism

- Type I diabetes mellitus

Disease

- Alcoholism
- Anxiety Disorders
- Autistic Disorder
- Bipolar Disorder
- Cleft Lip
- Cleft Palate
- Cognition
- Depressive Disorder
- Disease Models
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Kidney Failure
- Mental Disorders
- Neuropsychological Tests
- Neurotic Disorders
- Psychiatric Status Rating Scales
- Schizophrenia
- Schizophrenic Psychology
- Sleep Disorders
- Weight Gain