

Rabbit anti-Human, Mouse GAD1/2 Polyclonal Antibody | anti-GAD1 antibody

GAD1/2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321202	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GAD1/2; Polyclonal Antibody; GAD1/2 Antibody; 67 kDa glutamic acid decarboxylase; CPSQ1; DCE1; DCE1_HUMAN; EC 4.1.1.15; FLJ45882; GAD 67; GAD; GAD-67; GAD1; Glutamate decarboxylase 1 (brain; 67kDa); Glutamate decarboxylase 1; Glutamate decarboxylase 1 brain 67kD; Glutamate decarboxylase 1 brain 67kDa; Glutamate decarboxylase 67 kDa isoform; Glutamate decarboxylase; brain; 67-KD; OTTHUMP00000041055; SCP; 65 kDa glutamic acid decarboxylase; DCE 2; DCE2; DCE2_HUMAN; GAD 2; GAD 65; GAD-2; GAD-65; Gad2; Glutamate decarboxylase 2 (pancreas); Glutamate Decarboxylase 2 (pancreatic islets and brain 65kDa); Glutamate decarboxylase 2; Glutamate Decarboxylase 65; Glutamate decarboxylase 65 kDa isoform; Glutamic Acid Decarboxylase 2; Glutamic Acid Decarboxylase 65; MGC161605; MGC161607; anti-GAD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	GAD1/2 antibody detects endogenous levels of GAD1/2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	594
Applicable Applications for anti-GAD1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GAD1/2
Tissue Specificity	Isoform 3 is expressed in pancreatic islets, testis, adrenal cortex, and perhaps other endocrine tissues, but not in brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA321202 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on mouse brain cell lysate using GAD1/2 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of GAD1/2 expression in Rat heart lysate

ADDITIONAL INFORMATION

Related Product Information for anti-GAD1 antibody	Description: GAD2 Catalyzes the production of GABA. Homodimer. Belongs to the group II decarboxylase family. GAD67 Catalyzes the production of GABA. Homodimer. Isoform 3 is expressed in pancreatic islets, testis, adrenal cortex, and perhaps other endocrine tissues, but not in brain. Belongs to the group II decarboxylase family. 3 isoforms of the human protein are produced by alternative splicing. Function: Catalyzes the production of GABA. Subunit Structure: Homodimer. Similarity: Belongs to the group II decarboxylase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	58331246
NCBI GeneID	2571
NCBI Accession #	NP_000808.2
NCBI GenBank Nucleotide #	NM_000817.2
UniProt Accession #	Q99259; Q49AK1; Q53TQ7; Q9BU91; Q9UHH4
Molecular Weight	Observed: 65 kDa Predicted: 67 kDa
NCBI Official Full Name	glutamate decarboxylase 1 isoform GAD67
NCBI Official Synonym Full Names	glutamate decarboxylase 1
NCBI Official Symbol	GAD1
NCBI Official Synonym Symbols	GAD; SCP; CPSQ1
NCBI Protein Information	glutamate decarboxylase 1
UniProt Protein Name	Glutamate decarboxylase 1
UniProt Gene Name	GAD1
UniProt Synonym Gene Names	GAD; GAD67; GAD-67

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.