

Rabbit GAD2 Polyclonal Antibody | anti-GAD2 antibody

GAD2 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289987	Rabbit	Human (Predicted Reactivity: Mouse, Pig, Rat)	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

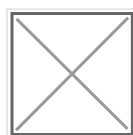
PRODUCT SYNONYMS

GAD2; Polyclonal Antibody; GAD2 Antibody (Center); Glutamate decarboxylase 2; 65 kDa glutamic acid decarboxylase; GAD-65; Glutamate decarboxylase 65 kDa isoform; GAD65; anti-GAD2 antibody

PRODUCT SPECIFICATIONS

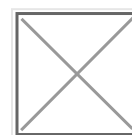
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Pig, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GAD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from the Central region of human GAD2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.47 (varies by lot)
Sequence Positions	109-138
Sequence Length	585
Applicable Applications for anti-GAD2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



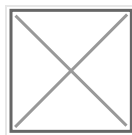
IF (Immunofluorescence)

Confocal immunofluorescent analysis of GAD2 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

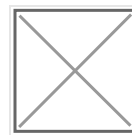


IHC (Immunohistochemistry)

GAD2 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GAD2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

**WB (Western Blot)**

GAD2 Antibody (Center) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the GAD2 antibody detected the GAD2 protein (arrow).

**WB (Western Blot)**

Western blot analysis of lysate from rat brain tissue lysate, using GAD2 Antibody (Center). AAA289987 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

Related Product Information for anti-GAD2 antibody	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production 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 autoantibody and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein.
Product Categories/Family for anti-GAD2 antibody	Metabolism ; Neuroscience
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) : Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010) Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) : Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503875
NCBI GeneID	2572
NCBI Accession #	NP_000809.1 ; NP_001127838.1
NCBI GenBank Nucleotide #	NM_000818.2
UniProt Accession #	Q05329 ; Q9UD87
Molecular Weight	65411
NCBI Official Full Name	glutamate decarboxylase 2
NCBI Official Synonym Full Names	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
NCBI Official Symbol	GAD2
NCBI Official Synonym Symbols	GAD65
NCBI Protein Information	glutamate decarboxylase 2
UniProt Protein Name	Glutamate decarboxylase 2
UniProt Gene Name	GAD2
UniProt Synonym Gene Names	GAD65; GAD-65
UniProt Entry Name	DCE2_HUMAN

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.

