

Rabbit GAD65 Polyclonal Antibody | anti-GAD2 antibody

Anti-GAD65 Antibody

CATALOG # AAA46748	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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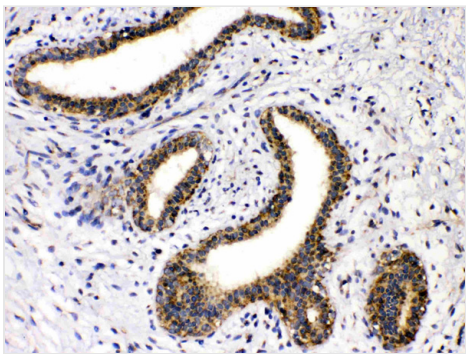
PRODUCT SYNONYMS

GAD65; Polyclonal Antibody; Anti-GAD65 Antibody; 4.1.1.15; 65 kDa glutamic acid decarboxylase; DCE 2; DCE2; GAD 2; GAD 65; GAD2; GAD-2; GAD-65; Glutamate decarboxylase 2; Glutamate Decarboxylase 65; Q05329; glutamate decarboxylase 2 (pancreatic islets and brain; 65kDa); anti-GAD2 antibody

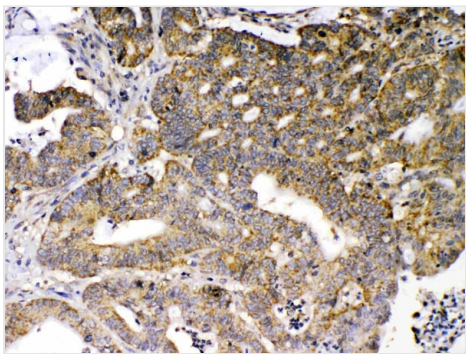
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	585
Applicable Applications for anti-GAD2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GAD65 (131-164aa KVIDFHYPNELLQEYNWELADQPQNLEEILMHCQ), different from the related mouse and rat sequences by one amino acid.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

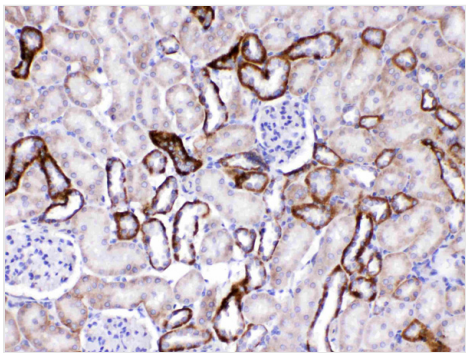
IMAGES



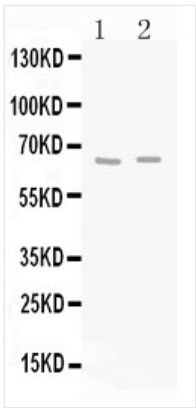
IHC (Immunohistochemistry)
GAD65 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- GAD65 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
GAD65 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- GAD65 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
GAD65 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- GAD65 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of GAD65 expression in rat brain extract (lane 1) and mouse brain extract (lane 2). GAD65 at 65kD was detected using rabbit anti- GAD65 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-GAD2 antibody	Rabbit IgG polyclonal antibody for Glutamate decarboxylase 2(GAD2) detection. Background: Glutamate decarboxylase 2, also known as GAD65, is an enzyme that in humans is encoded by the GAD2 gene. 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.
References	1. "Entrez Gene: GAD2 glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)". 2. Meyre, D., Boutin, P., Tounian, A., Deweirdt, M., Aout, M., Jouret, B., Heude, B., Weill, J., Tauber, M., Tounian, P., Froguel, P. Is glutamate decarboxylase 2 (GAD2) a genetic link between low birth weight and subsequent development of obesity in children?J. Clin. Endocr. Metab. 90: 2384-2390, 2005. 3. Zhang, Z., Cai, Y. Q., Zou, F., Bie, B., Pan, Z. Z. Epigenetic suppression of GAD65 expression mediates persistent pain. Nature Med. 17: 1448-1455, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503875
NCBI GeneID	2572
NCBI Accession #	NP_000809.1

NCBI GenBank Nucleotide #	NM_000818.2
UniProt Accession #	Q05329 ; Q9UD87
Molecular Weight	65,411 Da
NCBI Official Full Name	glutamate decarboxylase 2
NCBI Official Synonym Full Names	glutamate decarboxylase 2
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

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gad65-antibody-immunohistochemistry-western-blot-elisa/46748>