Rabbit Glutamate decarboxylase 1 Polyclonal Antibody | anti-GAD1 antibody

Anti-GAD67 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46026	**Rabbit**	**Human, Rat. No cross reactivity with other proteins.**	**Western Blot**

PRODUCT SYNONYMS

Glutamate decarboxylase 1; Polyclonal Antibody; Anti-GAD67 Antibody; 67 kDa glutamic acid decarboxylase antibody; DCE1 antibody; DCE1_HUMAN antibody; EC 4.1.1.15 antibody; FLJ45882 antibody; GAD 1 antibody; GAD 67 antibody; GAD antibody; GAD-67 antibody; GAD1 antibody; Glutamate decarboxylase 1 (brain 67kD) antibody; Glutamate decarboxylase 1 antibody; Glutamate decarboxylase 1 brain 67kD antibody; Glutamate decarboxylase 1 brain 67kDa antibody; Glutamate decarboxylase 67 kDa isoform antibody; OTTHUMP00000041055 antibody; SCP antibody; glutamate decarboxylase 1 (brain; 67kDa); anti-GAD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat. No cross reactivity with other proteins.
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	594
Applicable Applications for anti-GAD1 antibody	WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human GAD67 recombinant protein (Position: N14-D122). Human GAD67 shares 95% amino acid (aa) sequence identity with both mouse and rat GAD67.
Preparation and Storage	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

WB (Western Blot)
Anti- GAD67 Picoband antibody, AAA46026, Western blottingAll lanes: Anti GAD67 (AAA46026) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 67KDObserved bind size: 67KD

WB (Western Blot)
Anti- GAD67 Picoband antibody, AAA46026, Western blottingAll lanes: Anti GAD67 (AAA46026) at 0.5ug/mlWB: Recombinant Human GAD67 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD

ADDITIONAL INFORMATION

Related Product Information for anti-GAD1 antibody	**Description:** Rabbit IgG polyclonal antibody for Glutamate decarboxylase 1(GAD1) detection. Tested with WB in Human;Rat. **Background:** Glutamate decarboxylase 1 (brain, 67kDa) (GAD67), also known as GAD1, is a human gene. It is mapped to 2q31.1. 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 autoantigen and an autoreactive 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 seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form.

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	47,440 Da
NCBI Official Full Name	glutamate decarboxylase 1 isoform GAD67
NCBI Official Synonym Full Names	glutamate decarboxylase 1 (brain, 67kDa)
NCBI Official Symbol	GAD1
NCBI Official Synonym Symbols	GAD; SCP; CPSQ1
NCBI Protein Information	glutamate decarboxylase 1; GAD-67; 67 kDa glutamic acid decarboxylase; glutamate decarboxylase 67 kDa isoform
UniProt Protein Name	Glutamate decarboxylase 1
UniProt Gene Name	**GAD1**
UniProt Synonym Gene Names	GAD; GAD67; GAD-67
UniProt Entry Name	DCE1_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.

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