

Datasheet for ABIN3042415
anti-GAD antibody (AA 14-122)[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	GAD (GAD1)
Binding Specificity:	AA 14-122
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAD antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glutamate decarboxylase 1(GAD1) detection. Tested with WB in Human,Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Glutamate decarboxylase 1(GAD1) detection. Tested with WB in Human,Mouse,Rat.</p> <p>Gene Name: glutamate decarboxylase 1 (brain, 67 kDa)</p> <p>Protein Name: Glutamate decarboxylase 1</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	GAD (GAD1)
Alternative Name:	GAD1 (GAD1 Products)
Background:	<p>Glutamate decarboxylase 1 (brain, 67 kDa) (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.</p> <p>Synonyms: 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 67 kDa antibody Glutamate decarboxylase 67 kDa isoform antibody OTTHUMP00000041055 antibody SCP antibody</p>
Gene ID:	2571
UniProt:	Q99259

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for GAD67 is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

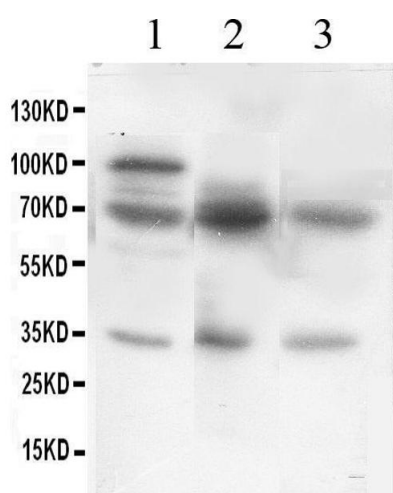
Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	You, Zhang, Li, Li, Li, Li, Zhu, Peng, Sun: "Cloning and molecular characterization of phospholipase D (PLD) delta gene from longan (Dimocarpus longan Lour.)." in: Molecular biology reports , Vol. 41, Issue 7, pp. 4351-60, (2014) (PubMed).
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Validation report #300033 for Immunohistochemistry (IHC)



Western Blotting

Image 1.



Western Blotting

Image 2. Anti- GAD67 Picoband antibody, Western blotting
All lanes: Anti GAD67 at 0.5ug/ml WB: Recombinant Human GAD67 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

Western Blotting

Image 3. Anti- GAD67 Picoband antibody, Western blotting
All lanes: Anti GAD67 at 0.5ug/mlWB: Recombinant Human GAD67 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD