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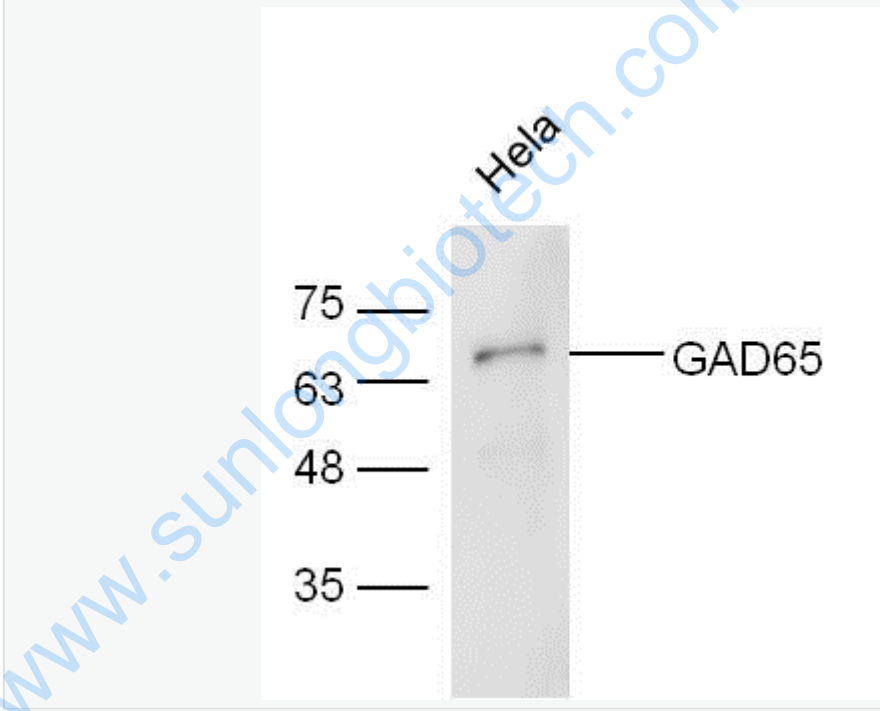
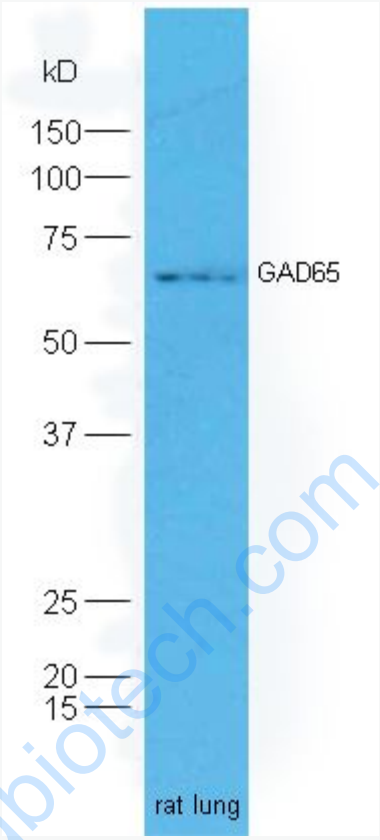
Rabbit Anti-GAD65 antibody

SL0325R

Product Name:	GAD65
Chinese Name:	谷氨酸脱羧酶-65抗体
Alias:	GAD65; 65 kDa glutamic acid decarboxylase; DCE 2; DCE2; GAD 2; GAD 65; GAD-2; GAD-65; GAD2; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	65kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GAD65:501-585/585
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Oct 2008] **Function:** Catalyzes the production of GABA. **Subunit:** Homodimer. **Subcellular Location:** Cytoplasm, cytosol. Cytoplasmic vesicle. Cell junction, synapse, presynaptic cell membrane; Lipid-anchor. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to cytoplasmic vesicles. In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters. **Post-translational modifications:** Phosphorylated; which does not affect kinetic parameters or subcellular location. Palmitoylated; which is required for presynaptic clustering. **Similarity:** Belongs to the group II decarboxylase family. **SWISS:** Q05329 **Gene ID:** 2572 **Database links:** Entrez Gene: 2572Human Entrez Gene: 14417Mouse Entrez Gene: 24380Rat Omim: 138275Human SwissProt: Q05329Human SwissProt: Q5VZ29Human SwissProt: Q5VZ30Human SwissProt: P48320Mouse SwissProt: Q548L4Mouse

	SwissProt: Q05683Rat Unigene: 231829Human Unigene: 4784Mouse Unigene: 29951Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 谷氨酸脱羧酶-65(GAD65)是用于I II型Diabetes研究的很重要的蛋白。
Picture:	 Sample: Hela Cell Lysate at 40 ug Primary: Anti- GAD65 (SL0325R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 65 kD Observed band size: 65 kD



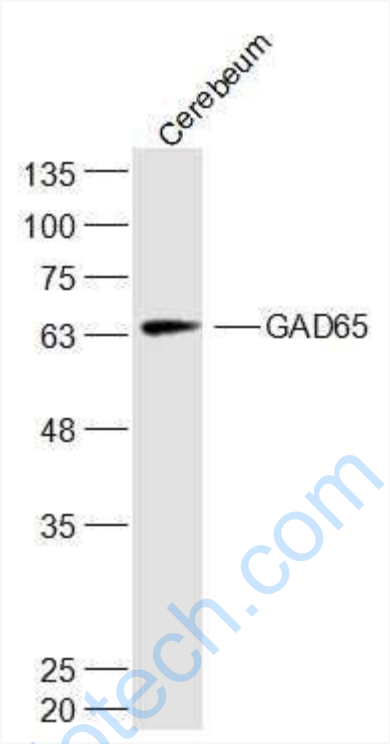
Sample: Lung(Rat) lysate at 30 ug;

Primary: Anti-GAD65 (SL0325R) at 1:300 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0325R) at 1: 5000 dilution;

Predicted band size : 65kD

Observed band size : 65kD



Sample:

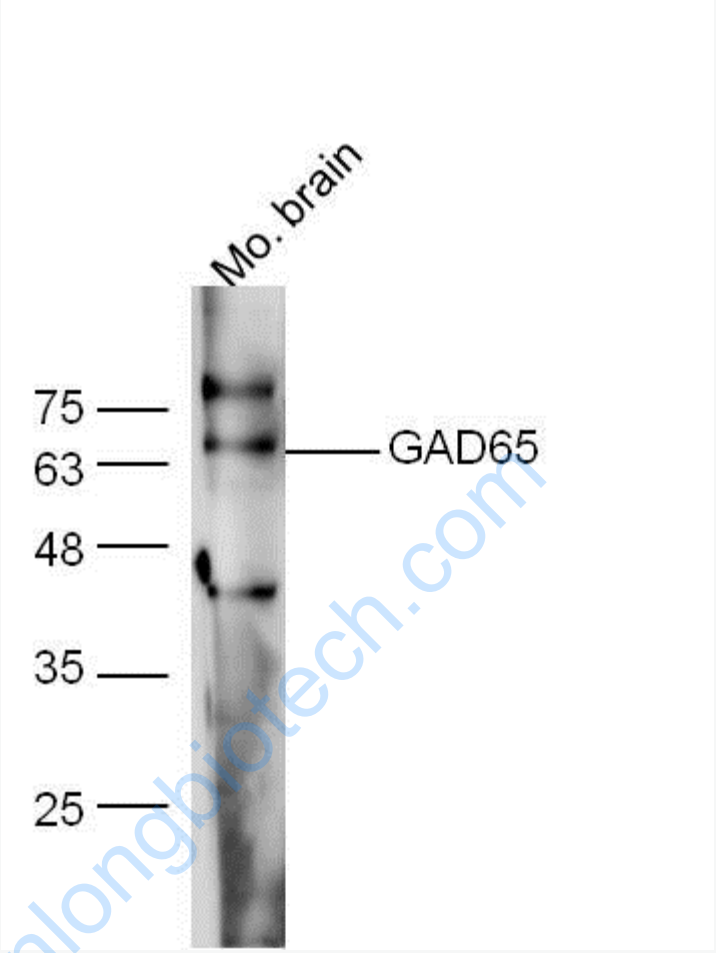
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-GAD65 (SL0325R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD

Observed band size: 65 kD



Sample:

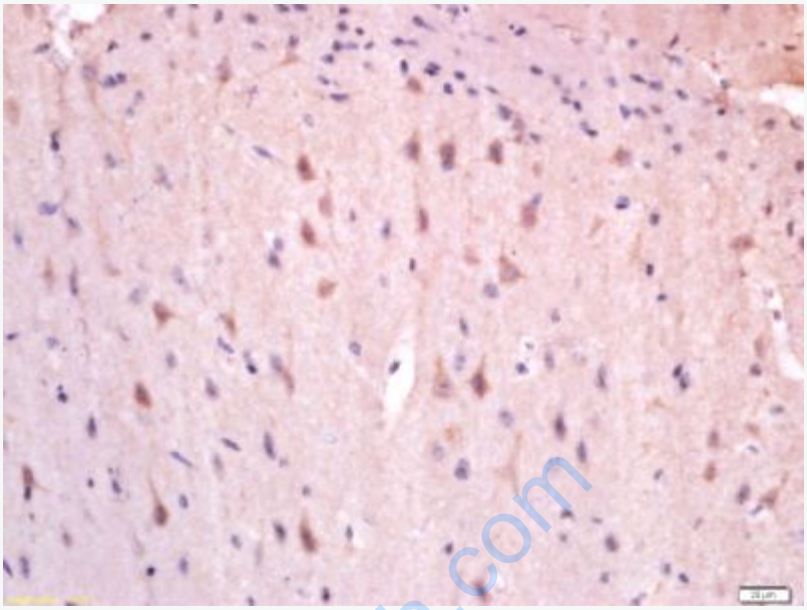
brain (Mouse) Lysate at 40 ug

Primary: Anti-GAD65 (SL0325R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

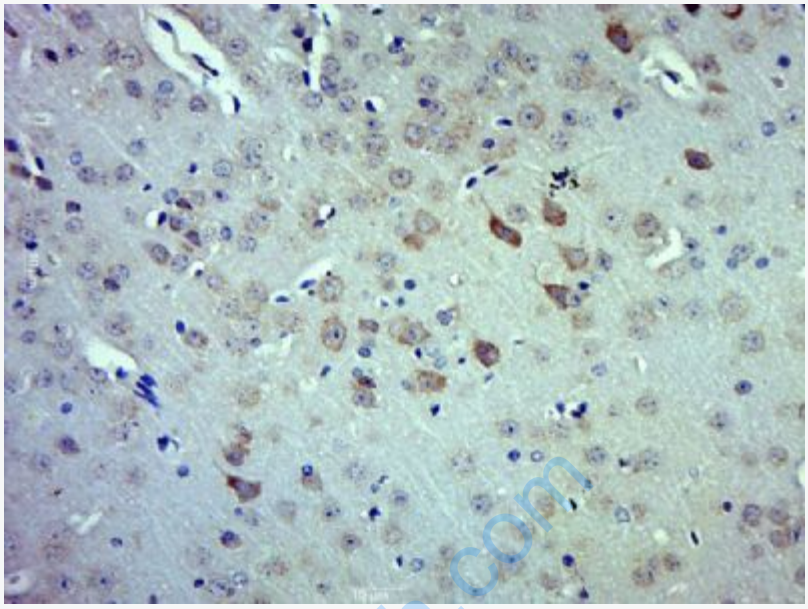
Predicted band size: 65 kD

Observed band size: 65 kD



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-GAD65 Polyclonal Antibody, Unconjugated(SL0325R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GAD65) Polyclonal Antibody, Unconjugated (SL0325R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.