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Product datasheet for TA323559

GAD65 (GAD2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 185 amino acids of human glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	65 kDa
Gene Name:	glutamate decarboxylase 2
Database Link:	NP_000809 Entrez Gene 14417 MouseEntrez Gene 24380 RatEntrez Gene 2572 Human Q05329
Background:	The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid. GAD1 (GAD67) and GAD2 (GAD65) are expressed in nervous and endocrine systems and are thought to be involved in synaptic transmission and insulin secretion, respectively. Autoantibodies against GAD2 may serve as markers for type I diabetes. Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2).
Synonyms:	GAD65

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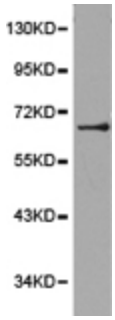
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes mellitus

Product images:



Predicted band size: 65 kDa. Positive control: Brain tissue lysate. Recommended dilution: 1/500-2000. (Gel: 8%SDS-PAGE Lysate: 40 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)