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Product datasheet for TA327449

GAD67 (GAD1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide of human GAD1
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutamate decarboxylase 1
Database Link:	NP_000808 Entrez Gene 14415 MouseEntrez Gene 24379 RatEntrez Gene 2571 Human Q99259
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.Mutations in the GAD1 gene can cause autosomal recessive spastic cerebral palsy, possibly attributable to altered glutamate/GABA ratios.
Synonyms:	CPSQ1; GAD; SCP

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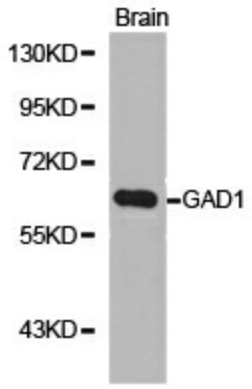
Protein Families: Druggable Genome

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

Product images:



Western blot analysis of extracts of fetal brain cell line, using GAD1 antibody.