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Product datasheet for AP22514PU-N

GAD67 (GAD1) (526-537) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA:** 1/8000. **Immunohistochemistry on Paraffin Sections:** 4 µg/ml. **Western Blot:** 0.3 - 1 µg/ml.
Reactivity:	Bat, Bovine, Canine, Equine, Human, Mouse, Opossum, Porcine, Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region of human GAD1 / GAD67 (NP_000808.2)
Specificity:	This antibody detects GAD1 / GAD67 (Internal). It is expected to recognize isoform GAD67. There is no cross-reactivity expected with GAD2.
Formulation:	Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutamate decarboxylase 1
Database Link:	Entrez Gene 14415 MouseEntrez Gene 24379 RatEntrez Gene 2571 Human Q99259

View online »

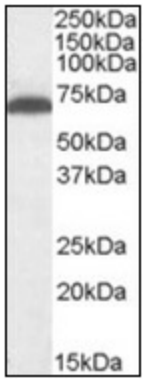
Background: GAD1 / GAD67 is one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been 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.

Synonyms: Glutamate decarboxylase 1, GAD-67

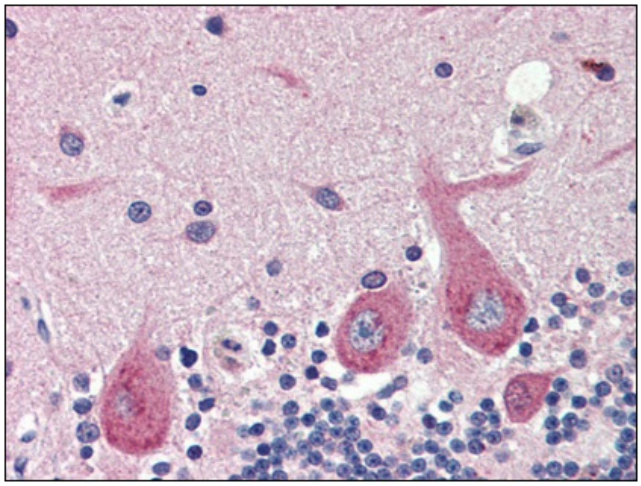
Protein Families: Druggable Genome

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

Product images:



Antibody (1 ug/ml) staining of Mouse Brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence



Human Brain, Cerebellum (formalin-fixed, paraffin-embedded) stained with GAD1 antibody at 4 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.