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Product datasheet for TA308785

GAD65 (GAD2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	IHC:1:100-1:1000; WB:1:5000-1:20000
Reactivity:	Human, Mouse (Predicted: Dog, Pig, Rhesus Monkey)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region within amino acids 465 and 558 of GAD65 (Uniprot ID#Q05329)
Formulation:	1XPBS, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
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_001127838 Entrez Gene 14417 MouseEntrez Gene 487107 DogEntrez Gene 2572 Human Q05329
Background:	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]
Synonyms:	GAD65

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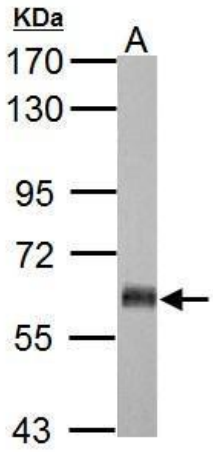
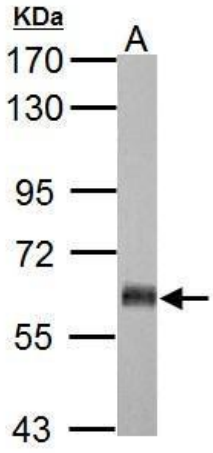
Note:	Seq homology of immunogen across species: Dog (92%), Pig (85%), Rhesus Monkey (100%)
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes mellitus

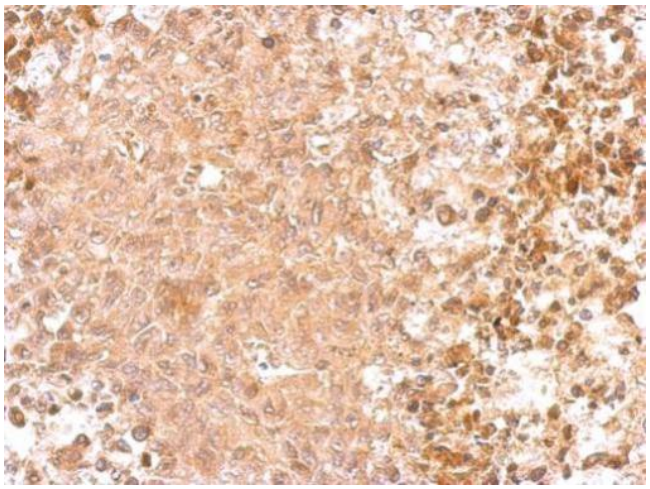
Product images:



Sample (20 ug of whole cell lysate). A: mouse brain. 7.5% SDS PAGE. TA308785 diluted at 1:10000.



Sample (10 ug of whole cell lysate). A: rat brain. 7.5% SDS PAGE. TA308785 diluted at 1:10000.



GAD65 antibody [C2C3], C-term detects GAD2 protein at cytosol on RT2 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded RT2 xenograft. GAD65 antibody [C2C3], C-term (TA308785) dilution: 1:500.