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Product datasheet for TA500329

GAD67 (GAD1) Mouse Monoclonal Antibody [Clone ID: OTI3G9]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI3G9

Applications: IF, IHC, IP, WB

Recommend Dilution: WB 1:1000-1:2000, IHC 1:50, IF 1:50, IP: 4ug/mL

Reactivity: Human, Monkey

Host: Mouse Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human GAD1 (NP_000808) produced in HEK293T

cell.

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 0.46 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Predicted Protein Size: 66.9 kDa

Gene Name: glutamate decarboxylase 1

Database Link: NP 000808 Entrez Gene 613030 MonkeyEntrez Gene 2571 Human

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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two

products, the predominant 67-kD form and a less-frequent 25-kD form.

Synonyms: CPSQ1; GAD; SCP
Protein Families: Druggable Genome

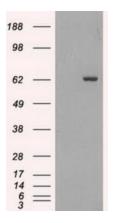




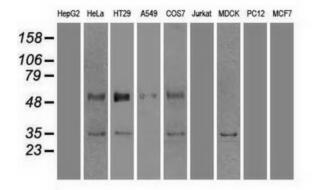
Protein Pathways:

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

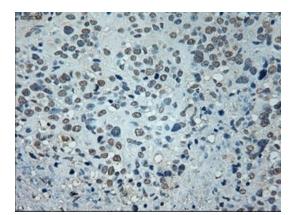
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GAD1 ([RC207226], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GAD1. Positive lysates [LY400290] (100ug) and [LC400290] (20ug) can be purchased separately from OriGene.

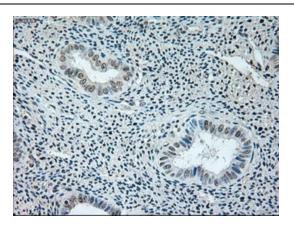


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GAD1 monoclonal antibody.

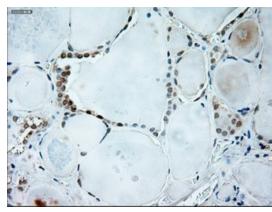


Immunohistochemical staining of paraffinembedded Carcinoma of Human bladder tissue using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

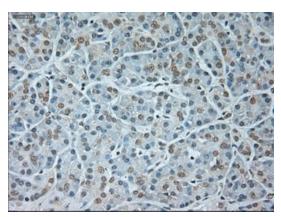




Immunohistochemical staining of paraffinembedded Human endometrium tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

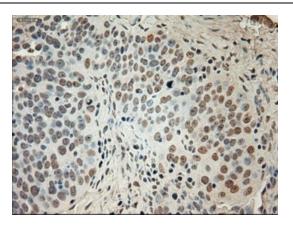


Immunohistochemical staining of paraffinembedded Human thyroid tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

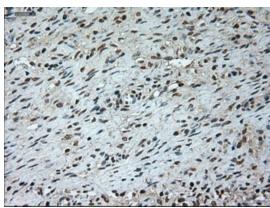


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

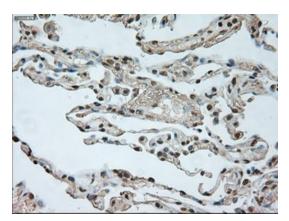




Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

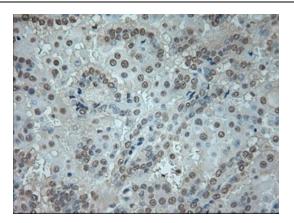


Immunohistochemical staining of paraffinembedded Human Ovary tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

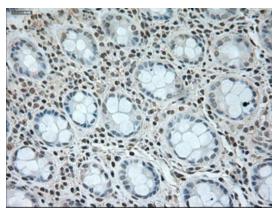


Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

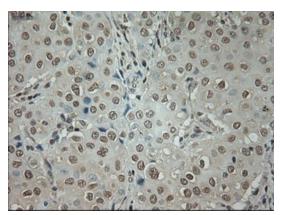




Immunohistochemical staining of paraffinembedded Carcinoma of Human kidney tissue using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

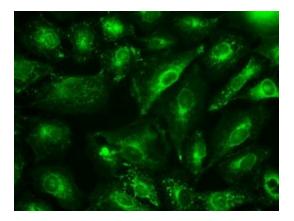


Immunohistochemical staining of paraffinembedded Human colon tissue within the normal limits using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)

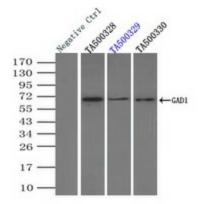


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human breast tissue using anti-GAD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500329)





Immunofluorescent staining of A549 cells using anti-GAD1 mouse monoclonal antibody (TA500329).



Immunoprecipitation of GAD1 by using TrueMab monoclonal anti-GAD1 antibodies (Negative control: IP without adding anti-GAD1 antibody.). For each experiment, 500ul of DDK tagged GAD1 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-GAD1 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.