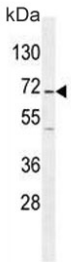
GAD2 Antibody / GAD65 (F54577)

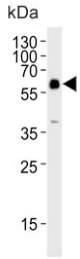
Catalog No.	Formulation	Size
F54577-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54577-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

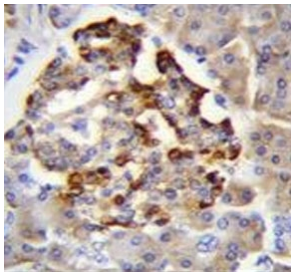
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q05329
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Immunofluorescence : 1:25
Limitations	This GAD2 antibody is available for research use only.



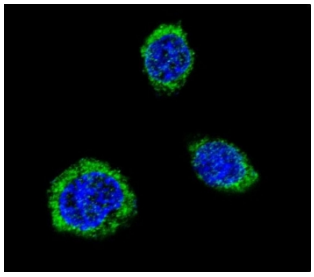
GAD2 Antibody Jurkat WB. Western blot testing of human Jurkat cell lysate with GAD2 antibody. Predicted molecular weight ~65 kDa.



GAD2 Antibody Rat Brain Tissue WB. Western blot testing of rat brain tissue lysate with GAD2 antibody. Predicted molecular weight ~65 kDa.



GAD2 Antibody Human Pancreas Immunohistochemistry. IHC testing of FFPE human pancreas tissue with GAD2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



GAD2 Antibody IF. Immunofluorescent staining of human HEK293 cells with GAD2 antibody (green) and DAPI nuclear stain (blue).

Description

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.

For highly specific detection of GAD65 in inhibitory synaptic signaling studies, see our GAD65 Antibody / Synaptic GABA Marker Antibody page featuring clone GAD2/2362 with strong HuProt(TM) microarray specificity validation data.

Application Notes

The stated application concentrations are suggested starting points. Titration of the GAD2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 109-138 from the human protein was used as the immunogen for the GAD2 antibody.

Storage

Aliquot the GAD2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.