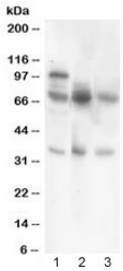
GAD67 Antibody (R31597)

Catalog No.	Formulation	Size
R31597	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	2571
Applications	Western Blot : 0.5-1ug/ml
Limitations	This GAD67 antibody is available for research use only.



Western blot testing of GAD67 antibody and Lane 1: rat testis; 2: mouse brain; 3: human MCF7 lysate. Predicted/observed molecular weight ~67 kDa

Western blot testing of GAD67 antibody and recombinant human protein (0.5ng)

Description

Glutamate decarboxylase 1 (GAD67), also known as GAD1, is a human gene. 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 GAD67 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. It 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the GAD67 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 14-122) was used as the immunogen for this GAD67 antibody.

Storage

After reconstitution, the GAD67 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.