

Product Information

Size:

100ul

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:3000,
IHC:1:50-1:100

Protein 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.

Gene ID:

GAD2

Uniprot

Q4G154

Synonyms:

Glutamate decarboxylase 2; EC 4.1.1.15; Glutamate decarboxylase 65 kDa isoform; GAD-65; 65 kDa glutamic acid decarboxylase

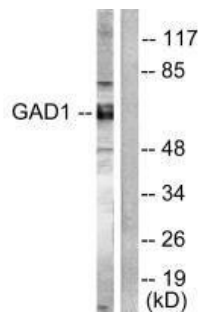
Immunogen:

Synthesized peptide derived from human GAD1/GAD2.

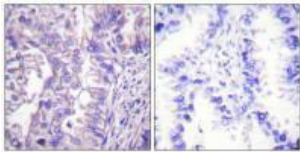
Storage:

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



Western blot analysis of extracts from mouse brain cells, using GAD1/2 antibody.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using GAD1/2 antibody.