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GAD65 Recombinant Rabbit mAb

Catalog # AP96700

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P48320
Other Accession	P48320
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	65224
Physical State	Liquid
Immunogen	Recombinant mouse GAD65 protein
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the group II decarboxylase family.
SUBUNIT	Homodimer.
Post-translational modifications	Phosphorylated; which does not affect kinetic parameters or subcellular location. Palmitoylated; which is required for presynaptic clustering.
Background Descriptions	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, Oct 2008]

Additional Information

Gene ID	14417
Other Names	GAD65; 6330404F12Rik; GAD(65); Gad-2; DCE2_HUMAN; GAD2; 65 kDa glutamic acid decarboxylase (GAD-65); Glutamate decarboxylase 65 kDa isoform; 4.1.1.15; DCE2_MOUSE; DCE2_RAT; glutamate decarboxylase 2; glutamate decarboxylase 2 (pancreatic islets and brain, 65kD); glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
Dilution	WB=1:500-2000,IF=1:200-800,IHC-P=1:200-800,IHC-F=1:200-800
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Gad2
Synonyms	Gad65
Function	Catalyzes the production of GABA.
Cellular Location	Cytoplasm, cytosol. Cytoplasmic vesicle. Presynaptic cell membrane; Lipid-anchor. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to cytoplasmic vesicles. In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters (By similarity).

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