

ARG40855 anti-GAD2 / GAD65 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes GAD2 / GAD65
Tested Reactivity	Hu, Rat
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Target Name	GAD2 / GAD65
Species	Human
Immunogen	Purified recombinant Human GAD2 protein fragments.
Conjugation	Un-conjugated
Alternate Names	Glutamate decarboxylase 65 kDa isoform; EC 4.1.1.15; GAD65; 65 kDa glutamic acid decarboxylase; GAD-65; Glutamate decarboxylase 2

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 0.03% Proclin 300 and 50% Glycerol.
Preservative	0.03% Proclin 300
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	GAD2
-------------	------

Gene Full Name	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
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 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]
Function	Catalyzes the production of GABA. [UniProt]
Calculated Mw	65 kDa
PTM	Phosphorylated; which does not affect kinetic parameters or subcellular location. Palmitoylated; which is required for presynaptic clustering. [UniProt]
Cellular Localization	Cytoplasm, cytosol. Cytoplasmic vesicle. Cell junction, synapse, 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. [UniProt]

Images

