

ARG40829 anti-GAD2 / GAD65 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GAD2 / GAD65
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GAD2 / GAD65
Species	Human
Immunogen	Recombinant protein corresponding to K84-L182 of Human GAD65.
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
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000

Application Note
IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

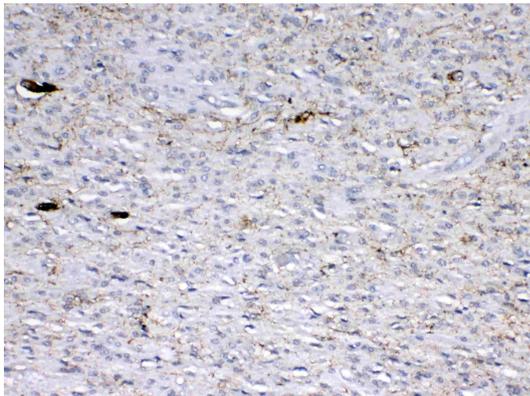
Properties

Form	Liquid
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
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 or below. 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

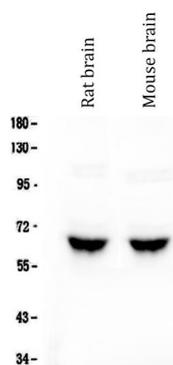
Gene Symbol	GAD2
Gene Full Name	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
Background	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production 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



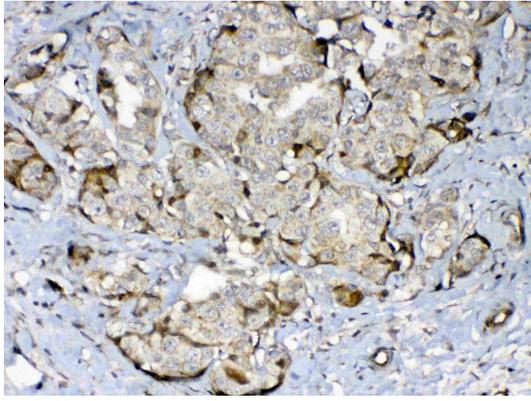
ARG40829 anti-GAD2 / GAD65 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human glioma tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40829 anti-GAD2 / GAD65 antibody at 1 µg/ml, overnight at 4°C.



ARG40829 anti-GAD2 / GAD65 antibody WB image

Western blot: 50 µg of samples under reducing conditions. Rat brain and Mouse brain tissue lysates stained with ARG40829 anti-GAD2 / GAD65 antibody at 0.5 µg/ml, overnight at 4°C.



ARG40829 anti-GAD2 / GAD65 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40829 anti-GAD2 / GAD65 antibody at 1 $\mu\text{g/ml}$, overnight at 4°C.