ARG42654
anti-GAD25 / GAD67 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GAD25 / GAD67
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GAD25 / GAD67
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-200 of Human GAD1 (NP_000808.2).
Conjugation	Un-conjugated
Alternate Names	EC 4.1.1.15; Glutamate decarboxylase 67 kDa isoform; Glutamate decarboxylase 1; 67 kDa glutamic acid decarboxylase; GAD; SCP; GAD-67; CPSQ1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Jurkat
Observed Size	~ 67 kDa

Properties

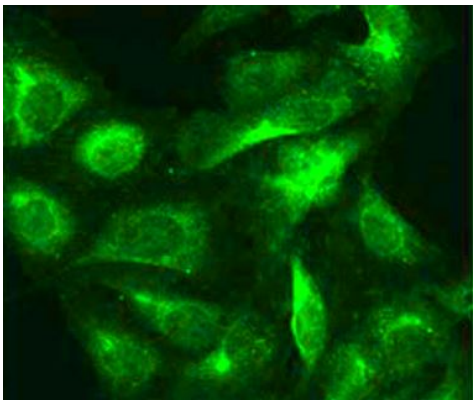
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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

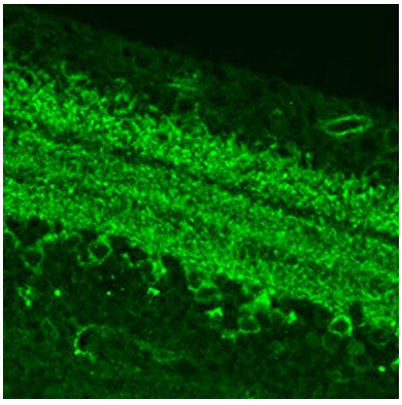
Gene Symbol	GAD1
Gene Full Name	glutamate decarboxylase 1 (brain, 67kDa)
Background	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric 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. [provided by RefSeq, Jul 2008]
Function	Catalyzes the production of GABA. [UniProt]
Calculated Mw	67 kDa (GAD67)

Images



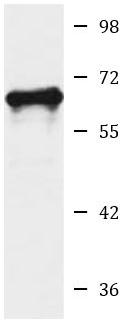
ARG42654 anti-GAD25 / GAD67 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG42654 anti-GAD25 / GAD67 antibody at 1:100 dilution.



ARG42654 anti-GAD25 / GAD67 antibody IHC image

Immunohistochemistry: Rat eyeball tissue stained with ARG42654 anti-GAD25 / GAD67 antibody at 1:100 dilution.



Jurkat

ARG42654 anti-GAD25 / GAD67 antibody WB image

Western blot: 25 µg of Jurkat cell lysate stained with ARG42654 anti-GAD25 / GAD67 antibody at 1:1000 dilution.