ARG63756
anti-GAD2 / GAD65 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GAD2 / GAD65
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise both reported variants.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GAD2 / GAD65
Species	Human
Immunogen	C-TLEDNEERMSRLSK
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	Assay - dependent
WB	0.5 - 1.5 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

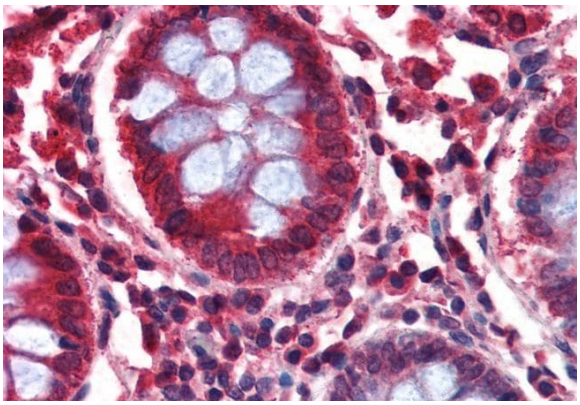
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for 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

Database links	GeneID: 2572 Human Swiss-port # Q05329 Human
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]
Research Area	Metabolism antibody; Neuroscience antibody
Calculated Mw	65 kDa
PTM	Phosphorylated; which does not affect kinetic parameters or subcellular location. Palmitoylated; which is required for presynaptic clustering.

Images

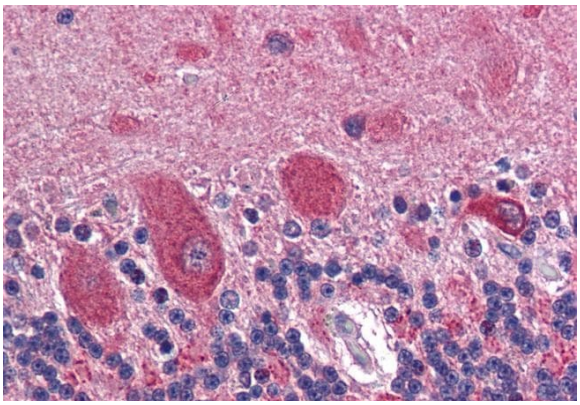


ARG63756 anti-GAD2 / GAD65 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63756 anti-GAD2 / GAD65 antibody at 2.5 µg/ml dilution followed by AP-staining.

ARG63756 anti-GAD2 / GAD65 antibody WB image

Western blot: 35 µg of Human brain (hippocampus) lysate (in RIPA buffer) stained with ARG63756 anti-GAD2 / GAD65 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.



ARG63756 anti-GAD2 / GAD65 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cerebellum tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63756 anti-GAD2 / GAD65 antibody at 2.5 µg/ml dilution followed by AP-staining.