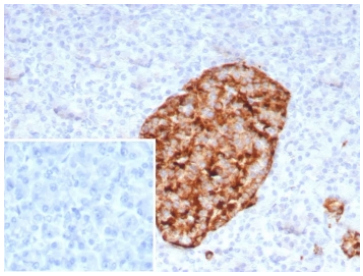
Recombinant GAD2 Antibody / GAD65 [clone rGAD2/9382] (V5589)

Catalog No.	Formulation	Size
V5589-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5589-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5589SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

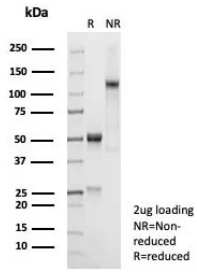
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Mouse Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	rGAD2/9382
Purity	Protein A/G affinity
UniProt	Q05329
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant GAD2 antibody is available for research use only.



IHC staining of FFPE human pancreas tissue with recombinant GAD2 antibody (clone rGAD2/9382). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant GAD2 antibody (clone rGAD2/9382) as confirmation of integrity and purity.

Description

This MAb recognizes a protein of 65kDa, which is identified as glutamic acid decarboxylase 2 (GDA2). It is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. There are two forms of glutamic acid decarboxylases (GAD s) that are found in the brain: GAD2 (also known as GAD65) and GAD1 (also known as GAD67). GAD1 and GAD2 are members of the group II decarboxylase family of proteins and are responsible for catalyzing the rate-limiting step in the production of GABA (?-aminobutyric acid) from L-glutamic acid. Although both GAD s are found in the brain, GAD2 localizes to synaptic vesicle membranes in nerve terminals, while GAD1 is distributed throughout the cell. A pathogenic role for GAD2 is identified in the human pancreas since it has been identified as an autoantibody and an auto-reactive T cell target in insulin-dependent diabetes.

Application Notes

Optimal dilution of the recombinant GAD2 antibody should be determined by the researcher.

Immunogen

A recombinant human GAD2 /GAD65 protein fragment (within amino acids 1-200) was used as the immunogen for the recombinant GAD2 antibody.

Storage

Aliquot the recombinant GAD2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.