

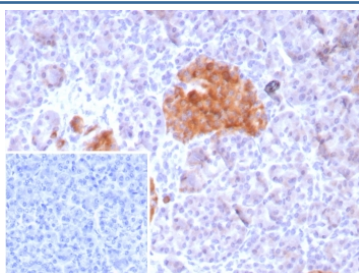
## GAD2 Antibody / GAD65 [clone GAD2/8547R] (V4078)

Catalog No.	Formulation	Size
V4078-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4078-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4078SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

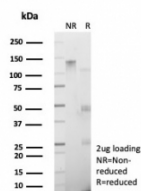
Recombinant **RABBIT MONOCLONAL**

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	GAD2/8547R
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	Q05329
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
<b>Limitations</b>	This GAD2 antibody is available for research use only.



IHC staining of FFPE human pancreas tissue with GAD2 antibody (clone GAD2/8547R).  
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 GAD2 antibody (clone GAD2/8547) as confirmation of integrity and purity.

## Description

This mAb recognizes a protein of 65kDa, which is identified as glutamic acid decarboxylase 2 (GAD2). It is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. There are two forms of glutamic acid decarboxylases (GADs) 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 (Gamma-aminobutyric acid) from L-glutamic acid. Although both GADs 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 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 GAD2 antibody.

## Storage

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