antibodies -online.com





anti-GAD65 antibody (AA 6-99)



Images



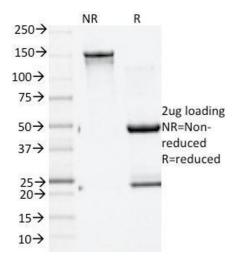
Overview

Quantity:	100 μg
Target:	GAD65 (GAD2)
Binding Specificity:	AA 6-99
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GAD65 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Application:	Immunohistochemistry (IHC), Staining Methods (StM)	
Product Details		
Immunogen:	Recombinant human GAD2 (GAD65) protein fragment (around aa 6-99) (exact sequence is proprietary)	
Clone:	GAD2-1960	
Isotype:	IgG2b kappa	
Specificity:	This MAb recognizes a protein of 65 kDa, 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	

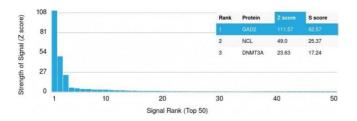
Product Details

	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.
Purification:	Purified by Protein A/G
Target Details	
Target:	GAD65 (GAD2)
Alternative Name:	GAD2 (GAD2 Products)
Molecular Weight:	65kDa
Gene ID:	2572
UniProt:	Q05329
Application Details	
Application Notes:	Positive Control: Pancreas or Brain (IHC).
	Known Application: Immunohistochemistry (Formalin-fixed) (0.1-0.2 µg/mL for 30 min at
	RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate
	Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a
	specific application should be determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 μg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody
	is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



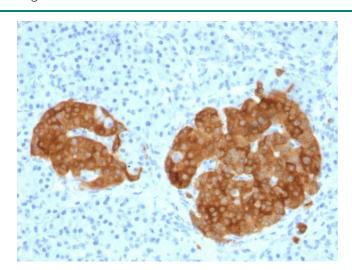
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified GAD2 (GAD65) Mouse Monoclonal Antibody (GAD2/1960). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using GAD2 (GAD65) Mouse Monoclonal Antibody (GAD2/1960) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. Sscore therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Pancreas stained with GAD2 (GAD65) Mouse Monoclonal Antibody (GAD2/1960).