

GAD2 Antibody



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Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q05329	Entrez-Gene Id: 2572
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		GAD2 Antibody detects endogenous levels of total GAD2 protein.				
Species predicted to react based on 100% sequence homology		Human				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Ala150 of human GAD2. Antibodies are purified by peptide affinity chromatography.				
Background		The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid (1). GAD1 (GAD67) and GAD2 (GAD65) are expressed in nervous and endocrine systems (2) and are thought to be involved in synaptic transmission (3) and insulin secretion (4), respectively. Autoantibodies against GAD2 may serve as markers for type I diabetes (5). Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2 (6).				
Background References		 Kaufman, D.L. et al. (1991) J Neurochem 56, 720-3. Feldblum, S. et al. (1993) J Neurosci Res 34, 689-706. Gao, B. and Moore, R.Y. (1996) J Biol Rhythms 11, 172-9. Rubi, B. et al. (2001) J Biol Chem 276, 36391-6. Gilliam, L.K. et al. (2004) Clin Exp Immunol 138, 337-41. Skorstad, G. et al. (2008) Eur J Neurol 15, 973-80. 				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		M: Mouse R: Rat				
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