GAD2 (D5G2) XP[®] Rabbit mAb





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Applications: W, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q05329	Entrez-Gene Id: 2572		
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence			Dilu 1:10 1:50 1:50)		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #81505.						
Specificity/Ser	nsitivity	GAD2 (D5G2) $XP^{(0)}$ Rabbit mAb recognizes endogenous levels of total GAD2 protein.						
Source / Purifi	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human GAD2 protein.						
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 R	eferences	1. Kaufman, D.L. et al. 2. Feldblum, S. et al. (3. Gao, B. and Moore, 4. Rubi, B. et al. (2001) 5. Gilliam, L.K. et al. (2 6. Skorstad, G. et al. (2	1993) J Neurosci Res R.Y. (1996) J Biol Rh) J Biol Chem 276, 30 004) Clin Exp Immu	5 34, 689-706. <i>ythms</i> 11, 172-9. 5391-6. <i>Inol</i> 138, 337-41.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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