Store at -200

GAD2 (D5G2) XP® Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q05329	Entrez-Gene ld: 2572	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting				1:1000	
	lmı	Immunoprecipitation				1:50	
	lmı	Immunofluorescence (Frozen)				1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #81505.					
Specificity / Sensi	i tivity GAI	GAD2 (D5G2) XP [®] Rabbit mAb recognizes endogenous levels of total GAD2 protein.					
Source / Purification Monoclonal antibody is produced by immuni residues near the carboxy terminus of huma				inizing animals with a synthetic peptide corresponding to nan GAD2 protein.			
Background	neu (GA tran mar	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 Refe	1. Kaufman, D.L. et al. (1991) <i>J Neurochem</i> 56, 720-3. 2. Feldblum, S. et al. (1993) <i>J Neurosci Res</i> 34, 689-706. 3. Gao, B. and Moore, R.Y. (1996) <i>J Biol Rhythms</i> 11, 172-9. 4. Rubi, B. et al. (2001) <i>J Biol Chem</i> 276, 36391-6. 5. Gilliam, L.K. et al. (2004) <i>Clin Exp Immunol</i> 138, 337-41. 6. Skorstad, G. et al. (2008) <i>Eur J Neurol</i> 15, 973-80.						

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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GAD2 (D5G2) XP® Rabbit mAb (#5843) Datasheet Without Images Cell Signaling Technology

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