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Product Usage Information Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen) Dilution 11:000 11:50 Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B5A, 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 #10603. Specificity/Sensitivity GAD1 (D1F2M) Rabbit mAb recognizes endogenous levels of total GAD1 protein. Psecies predicted to react homology Human Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala15 of human GAD1 protein. Background The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminoburyric 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 synaptit transmission (3) and insulin secretion (4), respectively. Autoantiboldies to GAD2 (6), GAD1 and GAD2 are encoded by separate genes and are coexpressed in most of the GABA-containing neurons (1, 7). Background References 1. Kaufman, D.L. et al. (1991) / Neuroschem 56, 720-3. 2. Feldblum, S. et al. (2004) (Bio Chem 276, 36301-6. 5. Gilliam, L.K. et al. (2004) (Din Exp Immunol 138, 337-41. 6. Skorstad, G. et al. (2004) (Din Exp Immunol 138, 337-41. 6. Skorstad, G. et al. (2004) (Din Exp Immunol 138, 337-41. 6. Skorstad, G. et al. (2004) (Din Exp Immunol 138, 337-41. 6. Skorstad, G. et al. (2004) (Din Exp Immunol 138, 337-41. 6. Skorstad, G. et al. (2004) (Din Exp Immunol 138, 337-41	Applications: Reactivi W, IP, IF-F M R	vity:Sensitivity:Endogenous	MW (kDa): 67	Source/Isotype: Rabbit IgG	UniProt ID: #Q99259	Entrez-Gene Id: 2571			
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 #10603. Specificity/Sensitivity GAD1 (D1F2M) Rabbit mAb recognizes endogenous levels of total GAD1 protein. Human Human Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala15 of human GAD1 protein. Background The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from _glutamic acid (1). GAD (GADE7) and GAD2 (GADE5) are expressed in neurosus and endocrine systems (2) and are thought to be involved in synaptit 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). GAD1 and GAD2 are encoded by separate genes and are coexpressed in most of the GABA-containing neurons (1, 7). Background References 1. Kaufman, D.L. et al. (1991) / Neurochem 56, 720-3. 2. 2. Feldblum, S. et al. (2003) / Neurosi Res 34, 689-706. 3. Gao, B. and Moore, R.Y. (1996) / Biol Rhythms 11, 172-9. 4. Rubi, B. et al. (2001) / Biol Chem 276, 36391-6. S. Skorstad, G. et al. (2000) / Disol Chem 276, 36391-6. S. Skorstad, G. et al. (2001) / Disol Chem 276, 36391-6. S. Skorstad, G. et al. (2003) / Disol Chem 276, 36391-6. S. Skorstad, G. et al. (2003) / Disol Khythms 11, 172-9. 4. Rubi, B. et al. (2001) / Disol Ch	Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescenc	Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen)			Dilution 1:1000 1:50 1:50			
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Cross-Reactivity Key M: Mouse R: Bat	Applications Key	W: Western Blotting	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
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