bs-1302R

[Primary Antibody]

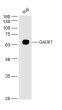
GAD67 Rabbit pAb

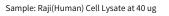


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- DATASHEET		400-901-9800	
Host: Rabbit	Isotype: IgG	Applications	WB (1:500-2000)
Clonality: Polyclon	5		IHC-P (1:100-500)
GenelD: 2571	SWISS: Q99259		IHC-F (1:100-500) IF (1:100-500)
Target: GAD67			Flow-Cyt (lug/Test)
Immunogen: KLH conjugated synthetic peptide derived from human GAD67: 455-594/594.		Reactivity	: Human, Mouse (predicted: Rat)
Purification: affinity purified by Protein A			
Concentration: 1mg/ml		Predicted	
Glycerol Shipped	3S (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% at 4°C. Store at -20°C for one year. Avoid repeated naw cycles.	Predicted MW.: Subcellular Location	67 kDa Cell membrane ,Cytoplasm
glutama neurotra molecula distribut neurons cells. It is oviduct a GABAerg suggesti GAD exis of 65 and genes. G amino a GAD67 is encoded between N termin GABA-co have dis been ide mellitus autoimn of pancr antibodi can be d patients clinical s marker i GAD65, b syndrom progress	c Acid Decarboxylase (GAD) catalyzes the conversion of L te to g-aminobutyric acid (GABA), the principal inhibitory insmitter in the brain, and a putative paracrine signal e in pancreatic islets. GAD has a restricted tissue ion. It is highly expressed in the cytoplasm of GABAergic in the central nervous system (CNS) and pancreatic beta s also present in other non-neuronal tissues such as testis, and ovary. GAD is also transiently expressed in non- igc cells of the embryonic and adult nervous system, ng its involvement in development and plasticity. ts as two isoforms, GAD65 and GAD67 (molecular masses d 67 kD, respectively) that are encoded by two different AD65 is an ampiphilic, membraneanchored protein, (585 cid residues) and is encoded on human chromosome 10. a cytoplasmic protein (594 amino acid residues) and is lon chromosome 2. There is 64% amino acid identity the two isoforms, with the highest diversity located at the tous, which in GAD65 is required for targeting the enzyme to intaining secretory vesicles. The two isoforms appear to intaining secretory vesicles. The two isoforms appear to intaining secretory vesicles. The two isoforms appear to intain thraneuronal distribution in the brain. GAD65 has nume disease that results from T cell mediated destruction eatic insulin-secreting beta cells. Islet-reactive T cells and es primarily to GAD65 (also named beta cell autoantigen) etected in peripheral blood of 80% of recent-onset IDD and in pre-diabetic high-risk subjects before onset of symptoms. This suggests that GAD may be an important n the early stages of the disease. Also, autoantibodies to nd GAD67 are detected in animal models of IDDM, g the non-obese diabetes (NOD) mouse. In the NOD mouse foul later spreads to other parts of GAD65. Stiff-man ne (SMS), a rare disorder of the CNS, is characterized by sive rigidity of the body musculature with painful spasms, npairment of the GABAergic neurotransmission.		

- VALIDATION IMAGES







bs-1302R-1/P1 856 600 Count 400 200 . 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10^{7.2} FITC-H

Blank control:K562. Primary Antibody (green

Primary: Anti-GAD67 (bs-1302R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 67 kD (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GAD67) Polyclonal Antibody, Unconjugated (bs-1302R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining. line): Rabbit Anti-GAD67 antibody (bs-1302R) Dilution: 1µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg/test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

- SELECTED CITATIONS ------

- [IF=4] Changchun Jian. et al. A GAD1 inhibitor suppresses osteosarcoma growth through the Wnt/β-catenin signaling pathway. HELIYON. 2024 May;10: IHC,WB ;Mouse,Human. 38803976
- [IF=2.378] Lin XY et al. Chronic exercise buffers the cognitive dysfunction and decreases the susceptibility to seizures in PTZ-treated rats. Epilepsy Behav. 2019 Aug 1;98(Pt A):173-187. WB ;Rat. 31377659