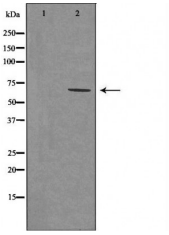
GAD1 Ab

Images(1)

Cat.#: DF7112	Concn.: ~1mg/ml	Mol.Wt.: 67kDa
Size:	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IF/ICC 1:100-1:500 *The optimal dilutions should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Storage:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Immunogen:	A synthesized peptide derived from human GAD1, corresponding to a region within C-terminal amino acids.
Uniprot:	Q99259
Description:	The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid . GAD1 (GAD67) and GAD2 (GAD65) are expressed in nervous and endocrine systems and are thought to be involved in synaptic transmission and insulin secretion , respectively. Autoantibodies against GAD2 may serve as markers for type I diabetes . Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2 . Mutations in the GAD1 gene can cause autosomal recessive spastic cerebral palsy, possibly attributable to altered glutamate/GABA ratios .



Western blot analysis of extracts from fetal brain, using GAD1Ab. The lane on the left was treated with the antigen-specific peptide.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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