

GAD65 Antibody, pAb, Rabbit

Cat. No.: A01496-40

Size: 40 µg

Synonyms: Rabbit Anti-GAD 65 Polyclonal Antibody;

Description:

Glutamic Acid Decarboxylase (GAD) catalyzes the conversion of glutamate to gamma-aminobutyric acid (GABA), the principal inhibitory neurotransmitter in the brain. There are two isoforms of GAD, GAD65 (GAD2) and GAD67 (GAD1) (65 and 67 kDa, respectively) encoded by two different genes. With 64% amino acid identity, the two isoforms have distinct intraneuronal distribution in the brain. The highest degree of diversity appears to be located at the N-terminus. Primarily found in nerve terminals, GAD65 is required for targeting the enzyme to GABA-containing secretory vesicles. GAD67 is thought to be primarily located in the nerve cell body and has been identified as a major autoantigen in type 1 diabetes.

GenScript **Rabbit Anti-GAD65 Polyclonal Antibody** is developed in rabbit using a KLH-coupled synthetic peptide from N-terminal of human GAD65 (Swiss Prot: Q05329).

Immunogen: KLH-coupled synthetic peptide from N-terminal of human GAD65 (Swiss Prot: Q05329).

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02%

sodium azide.

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-GAD65 Polyclonal Antibody detects endogenous levels of human GAD65.

Positive Control: SH-SY5Y.

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 1-2 µg/ml

Other Applications: user-optimized

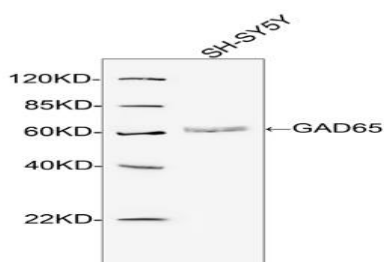
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Western blot analysis of cell lysates using 2 µg/ml Rabbit Anti-GAD65 Polyclonal Antibody (GenScript, A01496). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.
Predicted Size: 65 KD
Observed Size: 65 KD