

## GAD2

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC IF

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:10 - 1:100

**Calculated MW:** 65kDa

**Observed MW:** Refer to Figures

**Immunogen:**

Recombinant protein of human GAD2

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

GAD2; GAD65; MGC161605; MGC161607 ;

**Catalog #:** A0971

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 2572

**Isotype:** IgG

**Swiss Prot:** Q05329

**Purity:** Affinity purification

For research use only.

**Background:**

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).

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