

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GAD2/GAD65 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human GAD1/GAD67 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GAD2/GAD65 Ala1-Ala150 Accession # Q05329
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human GAD2/GAD65
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



GAD2/GAD65 in Human Dorsal Root Ganglia. GAD2/GAD65 was detected in immersion fixed paraffin-embedded sections of human dorsal root ganglia using Goat Anti-Human GAD2/GAD65 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2247) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to dorsal roots. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Glutamic acid decarboxylases (GAD), which catalyze the formation of gamma-aminobutyric acid from L-glutamic acid, are detectable in different isoforms encoded by distinct genes. GAD2, also known as GAD65, is expressed in the brain and pancreatic islets. GAD2 has been implicated as an autoantigen in the autoimmune disease Stiff Man Syndrome and in insulin-dependent diabetes mellitus.