

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GAD1/GAD67 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 252910
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GAD1/GAD67 Ala2-Asn97 Accession # Q99259
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

GAD1, also known as GAD67, is the enzyme responsible for the conversion of glutamic acid to gamma-aminobutyric acid (GABA), the major inhibitory transmitter in higher brain regions and putative paracrine hormone in pancreatic islets. GAD occurs as two molecular forms, 65 kDa and 67 kDa, that are encoded by separate genes and share 65% amino acid identity. GAD1 is highly conserved and is expressed in the CNS, pancreatic islet cells, testis, oviduct and ovary (1).

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