

Mouse Anti-Canine Glutamate Decarboxylase 67 (GAD67) Monoclonal Antibody

Cat. No.: VD11N75

Product Type: Animal-targeted Antibodies

Size: 100 µL

Product Overview

BioVenic mouse monoclonal antibody is specific for canine glutamate decarboxylase 67. It can be applied to WB, ICC/IF, IHC and IP assays of canine glutamate decarboxylase 67.

Specifications

Application	WB, ICC/IF, IHC, IP
Clonality	Monoclonal
Classification	Primary Antibody
Clone	S13N27
Host	Mouse
Target Species	Canine
Species Reactivity	Canine
Specificity	Canine Glutamate Decarboxylase 67
Isotype	IgG2
Immunogen	Recombinant protein of glutamate decarboxylase 67
Concentration	0.46 mg/mL
Conjugation	Unconjugated
Preservative and Stabilizer	0.02% Sodium Azide
Buffer	Phosphate Buffered Saline, 1% BSA, 50% Glycerol
Physical State	Liquid

Target Information

Canine glutamate decarboxylase 67 (GAD67) is a key enzyme in the brain that catalyzes the synthesis of γ-aminobutyric acid (GABA), the primary inhibitory neurotransmitter. This enzyme plays a crucial role in maintaining neural inhibition and is implicated in neuronal development, as its activity is detectable in the embryonic stage and precedes the formation of GABAergic synapses. GAD67 is one of the two main isoforms of GAD, with the other being GAD65, and they are encoded by GAD1 and GAD2 genes respectively.

ely. In dogs, GAD67 may be associated with temperament and behavior, as genetic polymorphisms in the GAD genes have been studied for their potential influence on these traits. The enzyme's function is not only limited to the brain but also extends to other areas such as the pancreatic islets, where it contributes to insulin secretion and glucose homeostasis.

Target	Canine Glutamate Decarboxylase 67
Target Synonym	GAD67
Gene ID	478794
UniProt ID	A0PA85

Shipping and Storage

This product is shipped with wet ice packs. Store at -20°C on receipt (up to 12 months). Avoid repeated freezing and thawing as this may denature the antibody.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.