

Anti-GADL1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Bee)
Molecular Weight:	Theoretical: 59 kDa. Actual: 60,50 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample:
	Lane 1: Mouse Cerebellum tissue lysates
	Lane 2: Mouse Cerebrum tissue lysates
	Lane 3: Mouse Muscle tissue lysates
	Lane 4: Rat Cerebrum tissue lysates
Primary:	Lane 5: Rat Muscle tissue lysates
	Primary: Anti-GADL1 (TMAB-06271) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 59 kDa
	Observed band size: 60, 50 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GADL1
Antigen Species:	Human
Gene ID:	339896
Uniprot ID:	Q6ZQY3

Research Background

There are two forms of glutamic acid decarboxylases (GADs) that exist in brain: GAD-65 (also known as GAD2) and GAD-67 (also known as GAD1, GAD or SCP). GAD-65 and GAD-67 are members of the group II decarboxylase family of proteins and are responsible for catalyzing the rate limiting step in the production of GABA (gamma-aminobutyric acid) from L-glutamic acid. Although both GADs are found in brain, GAD-65 localizes to synaptic vesicle membranes in nerve terminals, while GAD-67 is distributed throughout the cell. GAD-67 is responsible for the basal levels of GABA synthesis. In the case of a heightened demand for GABA in neurotransmission, GAD-65 transiently activates to assist in GABA production. As a member of the group II decarboxylase family, GADL1 (Glutamate decarboxylase-like protein 1) is a 521 amino acid protein that utilizes pyridoxal phosphate as a cofactor for its carboxylase activity. There are two isoforms of GADL1 that exist as a result of alternative splicing events.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481