GAD1 polyclonal antibody

Catalog: BS67740 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

The enzyme glutamate decarboxylase (GAD) is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid. GAD1 (GAD67) and GAD2 (GAD65) are expressed in nervous and endocrine systems and are thought to be involved in synaptic transmission and insulin secretion, respectively. Autoantibodies against GAD2 may serve as markers for type I diabetes. Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2.

Mutations in the GAD1 gene can cause autosomal recessive spastic cerebral palsy, possibly attributable to altered glutamate/GABA ratios.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 66 kDa

Swiss-Prot:

Q99259

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200), IF (1/50 - 1/200)

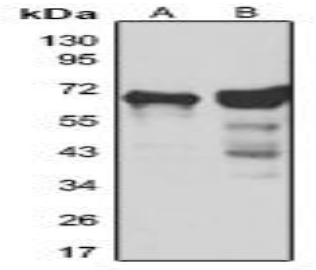
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

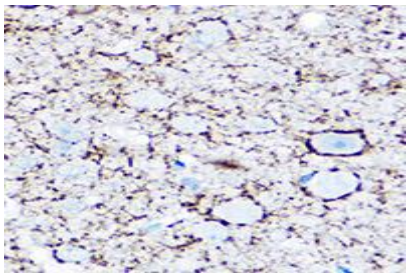
Specificity:

Recognizes endogenous levels of GAD1 protein.

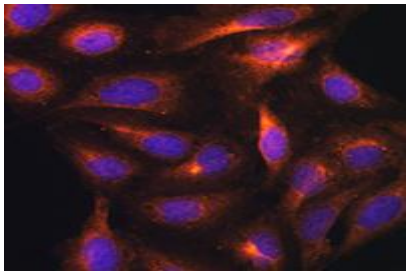
DATA:



Western blot analysis of GAD1 expression in Jurkat (A), mouse pancreas (B) whole cell lysates.



Immunohistochemical analysis of GAD1 staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GAD1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor

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594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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