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EB09109 - Goat Anti-GAD1 (isoform GAD67) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: GAD1, glutamate decarboxylase 1 (brain, 67kDa), FLJ45882, GAD, SCP, OTTHUMP00000041055, glutamate decarboxylase 1, glutamate decarboxylase 1 (brain, 67kD), GAD67, GAD25
Official Symbol: GAD1
Accession Number(s): NP_000808.2
Human GeneID(s): 2571
Non-Human GeneID(s): 14415 (mouse), 24379 (rat)
Important Comments: This antibody is expected to recognize isoform GAD67. There is no cross-reactivity expected with GAD2.

Immunogen

Peptide with sequence C-PDSPQRREKLHK, from the internal region of the protein sequence according to NP_000808.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.
Western blot: Approx 70kDa band observed in Human Cerebellum, and in Mouse and Rat Brain lysates (calculated MW of 66.9kDa according to Human NP_000808.2, and 66.6kDa according to Mouse NP_032103.2 and Rat NP_058703.1). Recommended concentration: 0.3-1µg/ml. Primary incubation 1hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the membrane and cytoplasm of A431 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow, Pig

EB09109 (1µg/ml) staining of Human Cerebellum (A) and Mouse Brain (B) and (0.3ug/ml) Rat Brain (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB09109 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB09109 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.