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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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.

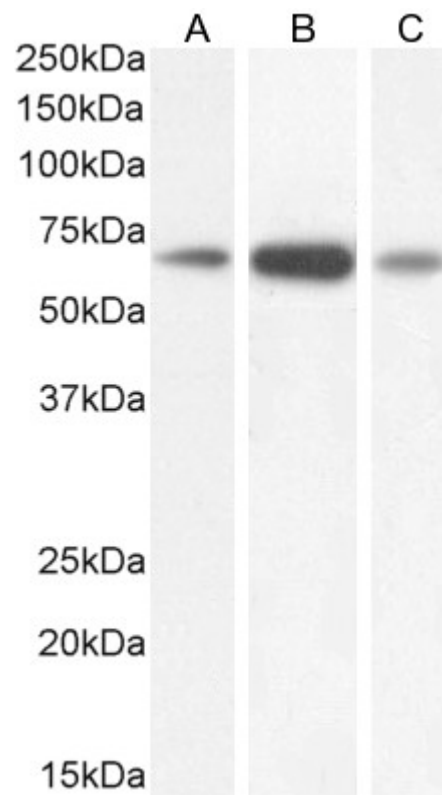
**Immunofluorescence:** Strong expression of the protein seen in the membrane and cytoplasm of A431 cells. Recommended concentration: 10µg/ml.

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

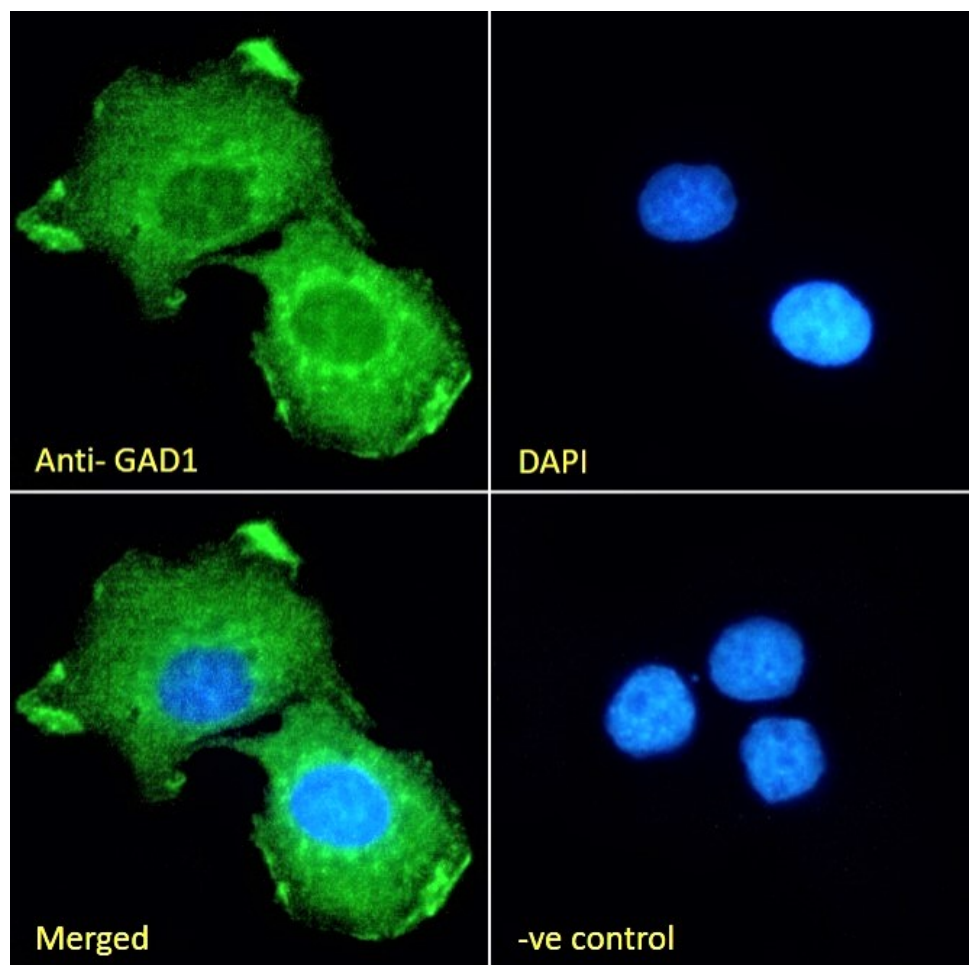
### Species Reactivity

**Tested:** Human, Mouse, Rat

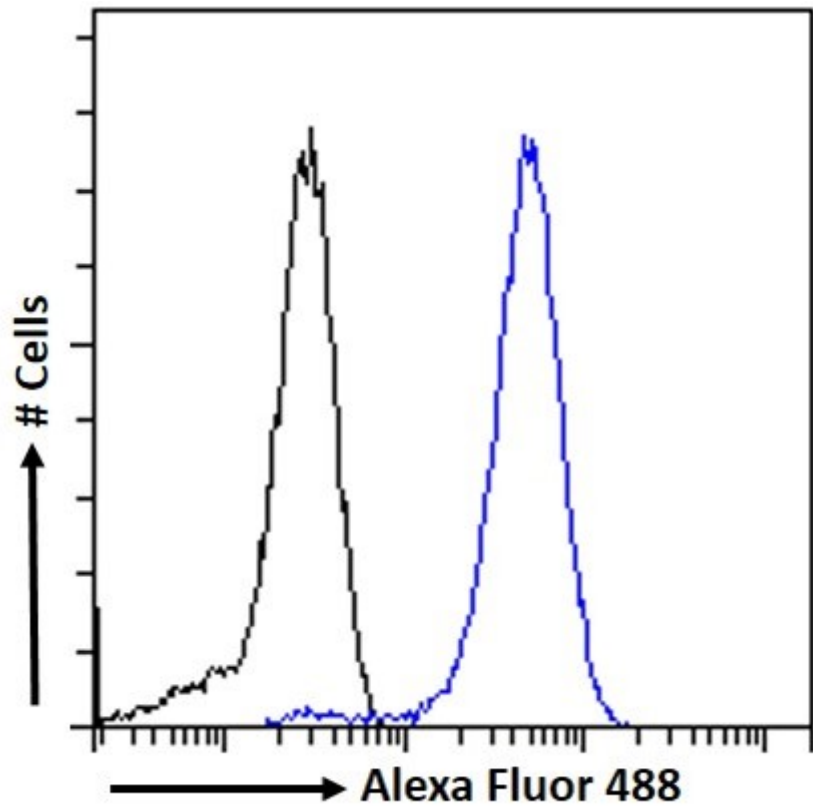
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow, Pig



EB09109 (1 $\mu$ g/ml) staining of Human Cerebellum (A) and Mouse Brain (B) and (0.3 $\mu$ g/ml) Rat Brain (C) lysate (35 $\mu$ g 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.