

## UK Office

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

## EB09856 - Goat Anti-Glutamate Dehydrogenase Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** GDH, GDH1, GLUD, glutamate dehydrogenase 1, MGC132003, GLUD1

**Official Symbol:** GLUD1 / GLUD2

**Accession Number(s):** NP\_005262.1; NP\_036216.2

**Human GeneID(s):** [2746](#), [2747](#)

**Non-Human GeneID(s):** 14661 (mouse), 24399 (rat)

**Important Comments:** This antibody is expected to recognize both reported isoforms (NP\_005262.1; NP\_036216.2).

### Immunogen

Peptide with sequence C-ESEEQKRNVRGILR, from the internal region of the protein sequence according to NP\_005262.1; NP\_036216.2.

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 1:32000.

**Western blot:** Approx 55kDa band observed in Human Brain (Cerebellum) and Mouse Brain lysates and in Human, Mouse and Rat Liver lysates (calculated MW of 61.4kDa according to Human NP\_005262.1, of 61.3kDa according to Mouse NP\_032159.1 and of 61.4kDa according to Rat NP\_036702.1). Recommended concentration: 0.3-1µg/ml. Primary incubation was 1 hour.

**IHC:** In paraffin embedded Human Cerebral Cortex shows mitochondrial staining in neuronal cell bodies and axons. Recommended concentration: 3-5µg/ml.

**Immunofluorescence:** Customer found particulate cytoplasm staining in HeLa.

### Species Reactivity

**Tested:** Human, Mouse, Rat

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

EB09856 (0.03µg/ml) staining of Human (A) and Mouse (B) Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB09856 (0.01µg/ml) staining of Human (A), Mouse (B) and Rat (C) Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB09856 (3.75µg/ml) staining of paraffin embedded Human Cerebral Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.