

## UK Office

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

## EB06659 - Goat Anti-ACHE Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ACHE, YT, acetylcholinesterase (YT blood group), ARACHE, N-ACHE, OTTHUMP00000211347, OTTHUMP00000211349, OTTHUMP00000211356, acetylcholinesterase; apoptosis-related acetylcholinesterase

**Official Symbol:** ACHE

**Accession Number(s):** NP\_000656.1; NP\_001269378.1

**Human GeneID(s):** [43](#)

**Important Comments:** This antibody is expected to recognise isoform NP\_000656.1 only (the ubiquitously expressed, hydrophilic form).

### Immunogen

Peptide with sequence QFDHYSKQDRCSL, from the C Terminus of the protein sequence according to NP\_000656.1; NP\_001269378.1.

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 65-70kDa band observed in lysates of cell lines Daudi, HeLa and Jurkat, and approx. 70kDa in Rat Brain lysates (calculated MW of 67.8kDa according to Human NP\_000656.1 and 68.2kDa according to Rat NP\_742006.1). Recommended concentration: 0.1-0.5µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Mouse Brain for this particular batch.

**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm and nucleus of U2OS cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HeLa cells. Recommended concentration: 10µg/ml.

### Species Reactivity

**Tested:** Human, Rat

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

EB06659 (0.3µg/ml) staining of Daudi (A), HeLa (B) and Jurkat (C) cell lysate (35µg protein in RIPA buffer).  
Detected by chemiluminescence.

EB06659 (0.3µg/ml) staining of Rat Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06659 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing cytoplasmic and nuclear/Vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml).

EB06659 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.