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

Storage: For long-term storage  
keep aliquots at -20°C. (Store no  
longer than 12 months at 4°C).  
Minimize freezing and thawing.

## EB06636 - Goat Anti-Choline acetyltransferase Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** , acetyl CoA:choline O-acetyltransferase, CMS1A2, CMS1A, CHAT, choline acetyltransferase

**Official Symbol:** CHAT

**Accession Number(s):** NP\_066264.3; NP\_066265.3; NP\_066266; NP\_001136406.1; NP\_001136401.1; NP\_065574.3; NP\_001136405.1

**Human GeneID(s):** [1103](#)

**Important Comments:** This antibody is expected to recognise all reported isoforms. Variants ( NP\_066264.3; NP\_066265.3; NP\_066266; NP\_001136406.1; NP\_001136401.1) encode the same isoform.

### Immunogen

Peptide with sequence CKEKATRPSQGHQP, from the C Terminus of the protein sequence according to NP\_066264.3; NP\_066265.3; NP\_066266; NP\_001136406.1; NP\_001136401.1; NP\_065574.3; NP\_001136405.1.

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 1:32000.

**Western blot:** Approx 70kDa band observed in Human Placenta lysates (calculated MW of 70.5kDa according to NP\_065574 and NP\_066264). Recommended concentration: 0.03-0.3µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Dog, Pig

### Background Reference

Madziar B, Lopez-Coviella I, Zemelko V, Berse B.

Regulation of cholinergic gene expression by nerve growth factor depends on the phosphatidylinositol-3'-kinase pathway.

J Neurochem. 2005 Feb;92(4):767-79.

**PMID:** 15686478



EB06636 (0.03 $\mu$ g/ml) staining of Human Placenta lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.