

## UK Office

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

## EB06595 - Goat Anti-COMT (N Terminus) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** COMT, catechol-O-methyltransferase

**Official Symbol:** COMT

**Accession Number(s):** NP\_000745.1; NP\_001128633.1; NP\_001128634.1;  
NP\_009294.1

**Human GeneID(s):** [1312](#)

**Important Comments:** This antibody is expected to recognise both reported isoforms S-COMT NP\_009294.1 and MB-COMT NP\_000745.1; NP\_001128633.1; NP\_001128634..

### Immunogen

Peptide with sequence GDTKEQRILNHVLQC, from the N Terminus of the protein sequence according to NP\_000745.1; NP\_001128633.1; NP\_001128634.1; NP\_009294.1.

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 1:4000.

**Western blot:** Approx 25kDa band observed in Human Liver and Ovary lysates and in MCF7 cell lysates, and approx. 25kDa and 30kDa in U251 cell lysate (calculated MW of 30.0kDa according to NP\_000745.1(MB COMT) and 24.5kDa according to NP\_009294.1 (S-COMT). Recommended concentration: 0.3-2µg/ml. Primary incubation 1 hour at room temperature.

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

### Species Reactivity

**Tested:** Human

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

### Specific Reference

**This antibody has been successfully used in the following paper:**

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdigen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen

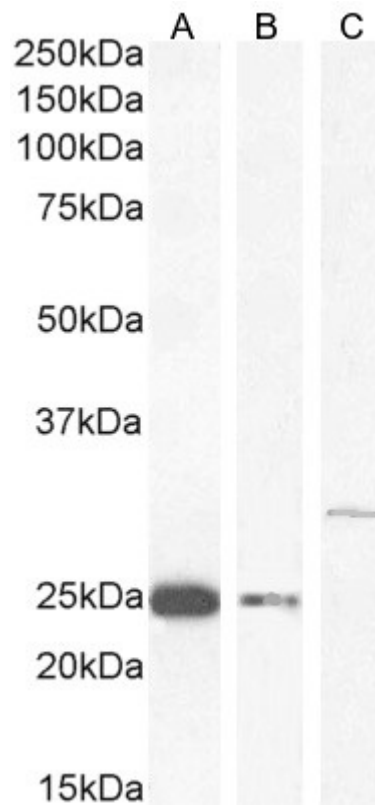
A high-throughput pipeline for validation of antibodies

Nat Methods. 2018 Nov;15(11):909-912

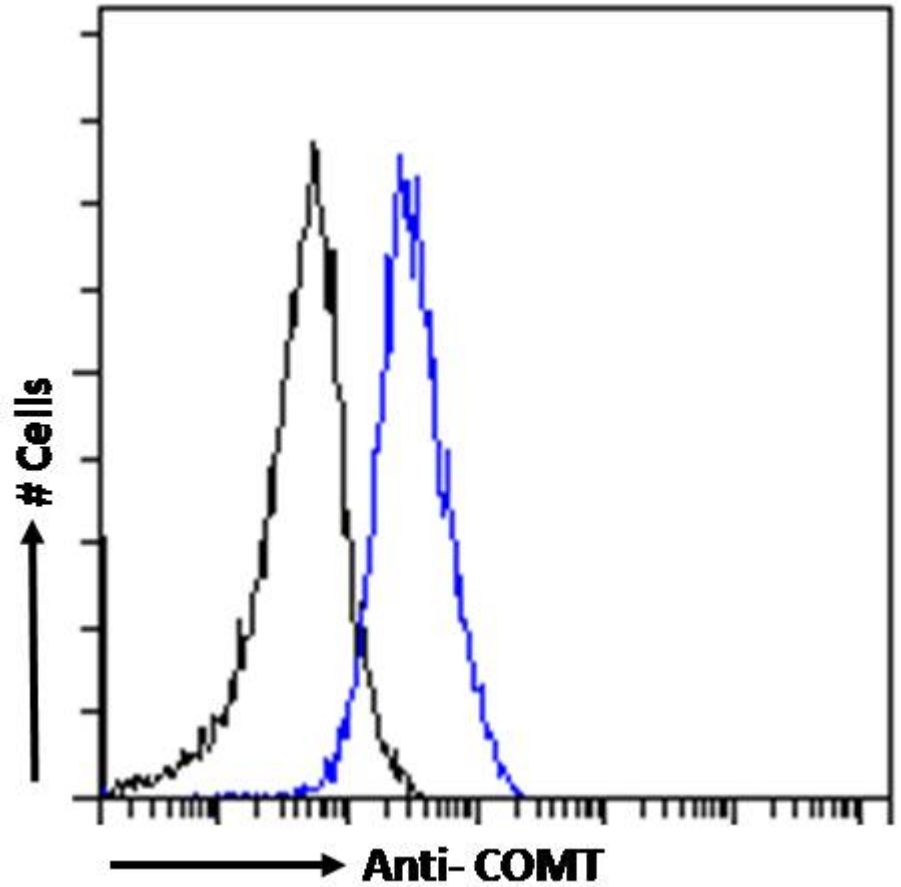
PMID: 30377371



EB06595, (2ug/ml) staining of Human Liver (A) and (1ug/ml) Ovary (B) lysate (35µg protein in RIPA buffer) Detected by chemiluminescence.



EB06595 (0.5ug/ml) staining of MCF7 (A), (1ug/ml) U251 cell lysate 1 (B) and U251 cell lysate 2 (C) (35µg protein in RIPA buffer) Detected by chemiluminescence.



EB06595 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.