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Goat Anti-COMT (N Terminus) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1265b

Specification

Goat Anti-COMT (N Terminus) Antibody - Product Information

Application	**WB, FC, Pep-ELISA**
Primary Accession	P21964
Other Accession	NP_009294, 1312
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**30037**

Goat Anti-COMT (N Terminus) Antibody - Additional Information

Gene ID 1312

Other Names
Catechol O-methyltransferase, 2.1.1.6, COMT

Dilution
WB~~1:1000
FC~~1:10~50
Pep-ELISA~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-COMT (N Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-COMT (N Terminus) Antibody - Protein Information

Name COMT (HGNC:2228)

Function
Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters

and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.

Cellular Location
[Isoform Soluble]: Cytoplasm

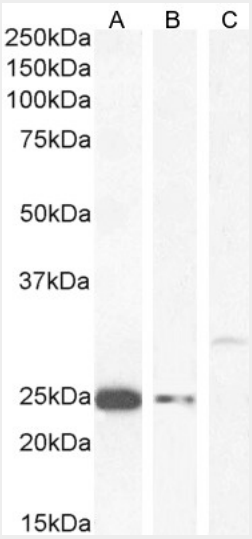
Tissue Location
Brain, liver, placenta, lymphocytes and erythrocytes

Goat Anti-COMT (N Terminus) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-COMT (N Terminus) Antibody - Images



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.

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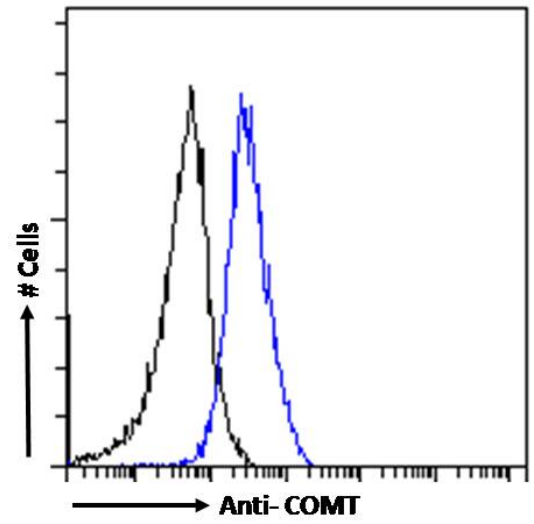

EB06595 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

Goat Anti-COMT (N Terminus) Antibody - Background

Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters.

Goat Anti-COMT (N Terminus) Antibody - References

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