abcam

Product datasheet

Anti-COMT antibody ab51984

2 Images

Overview

Product name	Anti-COMT antibody
Description	Goat polyclonal to COMT
Host species	Goat
Specificity	This antibody is expected to recognise both reported isoforms (NP_000745.1 and NP_009294.1).
Tested applications	**Suitable for:** WB, IHC-P, Sandwich ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Horse, Dog, Pig
Immunogen	Synthetic peptide: C-QDIIPQLKKKYDVD , corresponding to internal sequence amino acids 170-183 of Human COMT Run BLAST with Run BLAST with
Positive control	Human Testis lysates

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51984 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.03 - 0.1 µg/ml. A 1 hour primary incubation is recommended for this product. Detects an approximate 28kDa band and faint 25kDa band observed in human testis lysates (calculated MW of 30.0kDa according to NP_000745.1 and 24.5kDa according to NP_009294.1).
IHC-P		Use a concentration of 2 - 4 µg/ml.
Sandwich ELISA		Use a concentration of 0.5 - 2 µg/ml. Increasing amount of recombinant COMTcaptured by a rabbit antibody. ab51984 used as reporter.

Target

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.

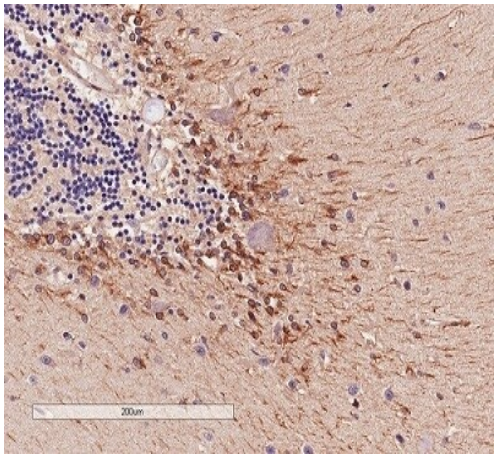
Tissue specificity Brain, liver, placenta, lymphocytes and erythrocytes.

Sequence similarities Belongs to the mammalian catechol-O-methyltransferase family.

Post-translational modifications The N-terminus is blocked.

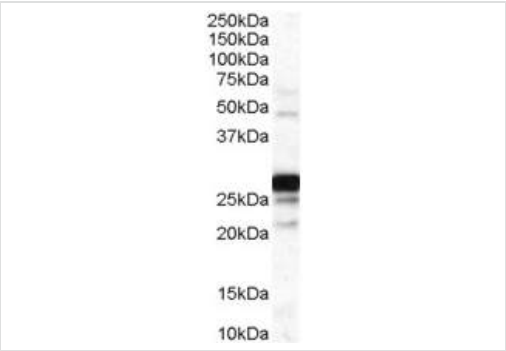
Cellular localization Cytoplasm and Cell membrane.

Images



Immunohistochemistry paraffin embedded sections - Anti-COMT antibody (ab51984)

Immunohistochemistry (paraffin-embedded sections) analysis of human cerebellum tissue labeling COMT with ab51984 at 4µg/ml. Microwaved antigen retrieval was performed using Tris/EDTA buffer pH 9. HRP staining.



Western blot - Anti-COMT antibody (ab51984)

Anti-COMT antibody (ab51984) at 0.03 µg/ml + Human Testis lysate in RIPA buffer at 35 µg

Observed band size: 28 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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