

COMT Polyclonal Antibody | anti-COMT antibody

Anti-COMT Antibody

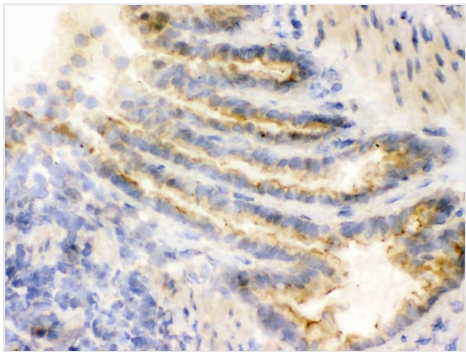
CATALOG #	REACTIVITY	APPLICATIONS
AAA11647	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry

PRODUCT SYNONYMS

COMT; Polyclonal Antibody; Anti-COMT Antibody; Catechol O-methyltransferase; Catechol O methyltransferase; COMT_HUMAN; EC 2.1.1.6; catechol-O-methyltransferase; anti-COMT antibody

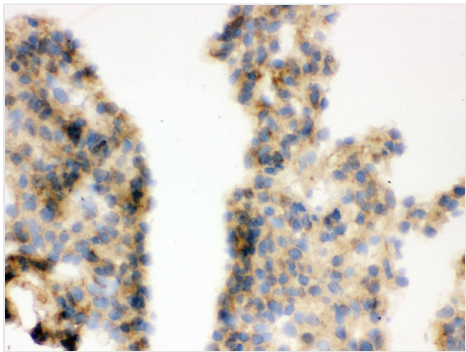
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	271
Applicable Applications for anti-COMT antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml Immunocytochemistry Concentration: 0.5-1ug/ml
Immunogen	E Coli-derived human COMT recombinant protein (Position: G52-P271). Human COMT shares 81.9% and 81% amino acid (aa) sequence identity with mouse and rat COMT, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



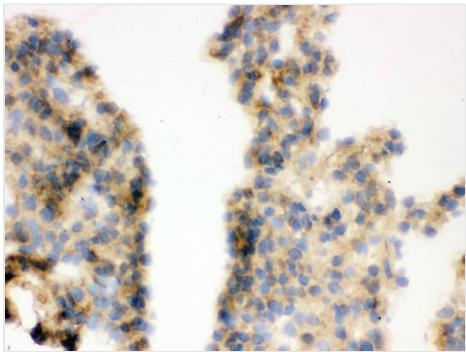
IHC (Immunohistochemistry)

Figure 8. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in frozen section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



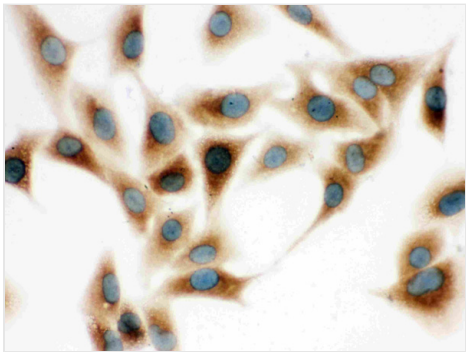
IHC (Immunohistochemistry)

Figure 7. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in frozen section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



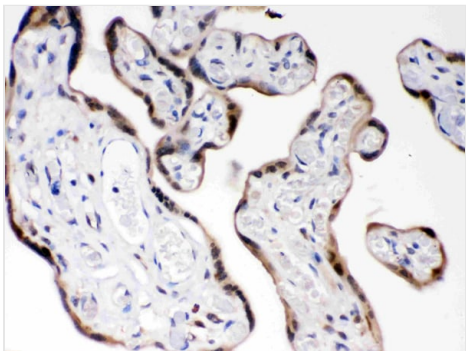
IHC (Immunohistochemistry)

Figure 6. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in frozen section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



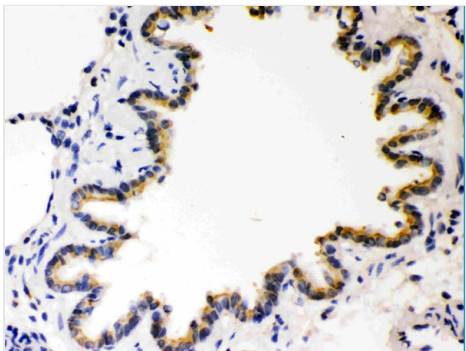
ICC (Immunocytochemistry)

Figure 5. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in immunocytochemical section of A549 Cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in paraffin-embedded section of Human Placenta Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of COMT using anti-COMT antibody (AAA11647).COMT was detected in paraffin-embedded section of Rat Lung Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COMT Antibody (AAA11647) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-COMT antibody	Description: Rabbit IgG polyclonal antibody for Catechol O-methyltransferase(COMT) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. Background: Catechol O-methyltransferase, also called COMT, is one of the major mammalian enzymes involved in the metabolic degradation of catecholamines. This gene is mapped to 22q11.21. 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.
References	1. Baker, K., Baldeweg, T., Sivagnanasundaram, S., Scambler, P., Skuse, D. COMT val108/158met modifies mismatch negativity and cognitive function in 22q11 deletion syndrome. Biol. Psychiat. 58: 23-31, 2005. 2. Lee, S.-G., Joo, Y., Kim, B., Chung, S., Kim, H.-L., Lee, I., Choi, B., Kim, C., Song, K. Association of Ala72Ser polymorphism with COMT enzyme activity and the risk of schizophrenia in Koreans. Hum. Genet. 116: 319-328, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502969
NCBI GeneID	1312
NCBI Accession #	NP_000745.1
NCBI GenBank Nucleotide #	NM_000754.3
UniProt Accession #	P21964; Q6IB07; Q6ICE6; Q9BWC7; A8MPV9
Molecular Weight	24,449 Da
NCBI Official Full Name	catechol O-methyltransferase isoform MB-COMT
NCBI Official Synonym Full Names	catechol-O-methyltransferase
NCBI Official Symbol	COMT
NCBI Official Synonym Symbols	HEL-S-98n
NCBI Protein Information	catechol O-methyltransferase
UniProt Protein Name	Catechol O-methyltransferase
UniProt Gene Name	COMT
UniProt Entry Name	COMT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/comt-antibody-western-blot-immunohistochemistry-immunocytochemistry-elisa/11647>