

Rabbit anti-Human, Mouse COMT Polyclonal Antibody | anti-COMT antibody

COMT Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324578	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

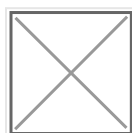
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

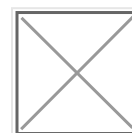
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	COMT antibody detects endogenous levels of total COMT
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	271
Applicable Applications for anti-COMT antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm and Cell Membrane.
Tissue Specificity	Brain, liver, placenta, lymphocytes and erythrocytes.
Predicted Cross Reactivity	Bovine, Horse, Rabbit, Dog
Similarity	Bovine (82%), Horse (82%), Rabbit (80%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells using COMT antibody.



IF (Immunofluorescence)

AAA324578 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COMT antibody	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. Post-translational Modifications: The N-terminus is blocked. Similarity: Belongs to the class I-like SAM-binding methyltransferase superfamily. Cation-dependent O-methyltransferase family.
References	Bai L, Tang Q, Zou Z, Meng P, Tu B, Xia Y, Cheng S, Zhang L, Yang K, Mu S, Wang X, Qin X, Lv B, Cao X, Qin Q, Jiang X, Chen C; Journal: Toxicol Sci. m6A demethylase FTO regulates dopaminergic neurotransmission deficits caused by arsenite.

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	Observed: 30 kD Predicted: 31 kDa
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

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.