

Product Name: KD-Validated Catechol-O-Methyltransferase Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01544

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 30.0kDa

Antigen Information

Gene Name	COMT
Alternative Names	COMT; Catechol-O-Methyltransferase; Catechol O-Methyltransferase; EC 2.1.1.6; Epididymis Secretory Sperm Binding Protein Li 98n; Testicular Tissue Protein Li 42; HEL-S-98n
Gene ID	1312.0
SwissProt ID	P21964
Immunogen	A synthesized peptide derived from human COMT

Background

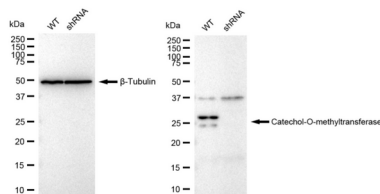
Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major

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. [provided by RefSeq, Sep 2008]

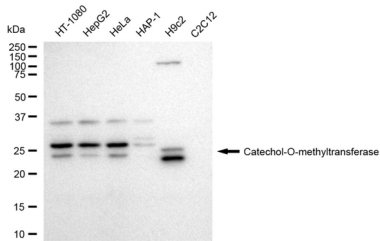
Research Area

Neuroscience, Signal Transduction, Metabolism

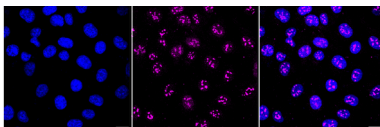
Image Data



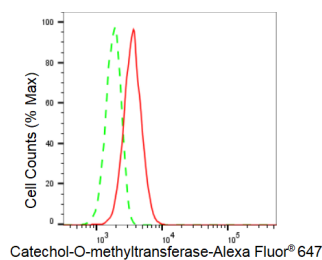
Western blotting analysis using Catechol-O-methyltransferase antibody (KVA01544). Catechol-O-methyltransferase expression in wild type (WT) and Catechol-O-methyltransferase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Catechol-O-methyltransferase antibody (KVA01544, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Catechol-O-methyltransferase antibody (KVA01544). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Catechol-O-methyltransferase antibody (KVA01544, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Catechol-O-methyltransferase antibody (KVA01544, 1:1,000). Nuclei were stained blue with DAPI; Catechol-O-methyltransferase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Catechol-O-methyltransferase expression in HT-1080 cells using Catechol-O-methyltransferase antibody (KVA01544, 1:2,000). Green, isotype control; red, Catechol-O-methyltransferase.