

产品名称: COMT Rabbit Polyclonal Antibody
产品货号: APRab09227



产品概述 (Summary)

产品名称 (Production Name)	COMT Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	COMT
别名 (Alternative Names)	COMT; Catechol O-methyltransferase
基因 ID (Gene ID)	1312.0
蛋白 ID (SwissProt ID)	P21964.The antiserum was produced against synthesized peptide derived from human COMT. AA range:61-110

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	30kDa

研究背景 (Background)

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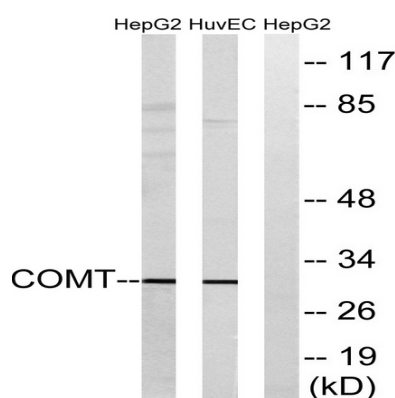


Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition 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],catalytic activity:S-adenosyl-L-methionine + a catechol = S-adenosyl-L-homocysteine + a guaiacol.,cofactor: Binds 1 magnesium ion per subunit.,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.,mass spectrometry: PubMed:8020475,online information: Catechol-O-methyl transferase entry, polymorphism: Low enzyme activity alleles are associated with genetic susceptibility to alcoholism [MIM:103780]., polymorphism: Two alleles, COMT*1 or COMT*H with Val-158 and COMT*2 or COMT*L with Met-158 are responsible for a three to four-fold difference in enzymatic activity.,PTM: The N-terminus is blocked.,similarity: Belongs to the mammalian catechol-O-methyltransferase family.,tissue specificity: Brain, liver, placenta, lymphocytes and erythrocytes.,

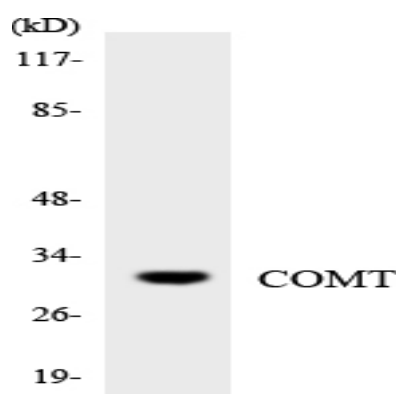
研究领域 (Research Area)

Steroid hormone biosynthesis; Tyrosine metabolism;

图片 (Image Data)



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Western blot analysis of the lysates from Jurkat cells using COMT antibody.

注意事项 (Note)

For research use only .