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[Primary Antibody]

Rabbit Anti-COMT antibody

Catalog Number: SL15507R

FOR RESEARCH USE ONLY

[DATASHEET]

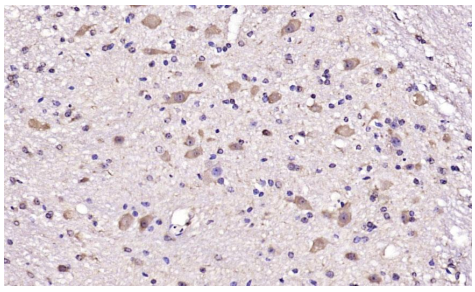
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	COMT
Immunogen:	KLH conjugated synthetic peptide derived from human COMT: 121-220/271
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Pig,Cow,Horse)
Predicted MW.:	30kDa
Subcellular Location:	cytoplasmic The cell membrane
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] **Function:** Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the

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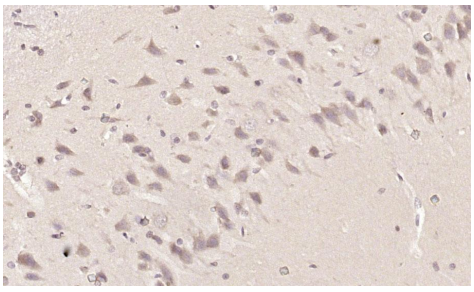
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	biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol. **Subcellular Location:** Isoform Soluble: Cytoplasm. Isoform Membrane-bound: Cell membrane; Single-pass type II membrane protein; Extracellular side. **Tissue Specificity:** Brain, liver, placenta, lymphocytes and erythrocytes. **Post-translational modifications:** The N-terminus is blocked. **Similarity:** Belongs to the mammalian catechol-O-methyltransferase family. **Database links:** **Entrez Gene:** 1312 Human **Entrez Gene:** 12846 Mouse **Entrez Gene:** 24267 Rat Omim: 116790 Human **SwissProt:** P21964 Human **SwissProt:** O88587 Mouse **SwissProt:** P22734 Rat **Unigene:** 370408 Human **Unigene:** 704514 Human **Unigene:** 100940 Mouse **Unigene:** 220 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COMT) Polyclonal Antibody, Unconjugated (SL15507R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COMT) Polyclonal Antibody, Unconjugated (SL15507R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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