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Anti-COMT Antibody

Rabbit polyclonal antibody to COMT
Catalog # AP59521

Product Information

Application	WB, IF/IC
Primary Accession	P21964
Other Accession	O88587
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30037

Additional Information

Gene ID	1312
Other Names	Catechol O-methyltransferase
Target/Specificity	Recognizes endogenous levels of COMT protein.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

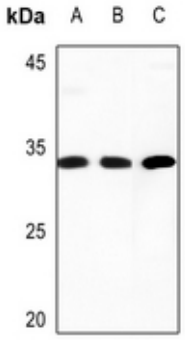
Protein Information

Name	COMT (HGNC:2228)
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.
Cellular Location	[Isoform Soluble]: Cytoplasm
Tissue Location	Brain, liver, placenta, lymphocytes and erythrocytes

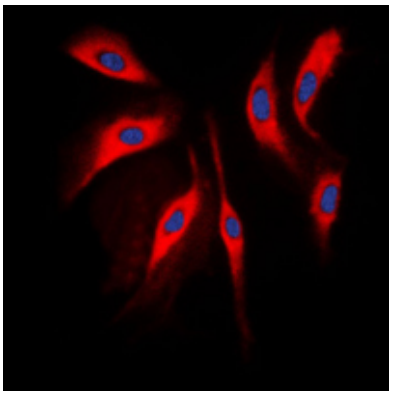
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human COMT. The exact sequence is proprietary.

Images



Western blot analysis of COMT expression in A549 (A), U2OS (B), rat testis (C) whole cell lysates.



Immunofluorescent analysis of COMT staining in Raw264.7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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