COMT rabbit pAb

Cat#: orb767636 (Manual)

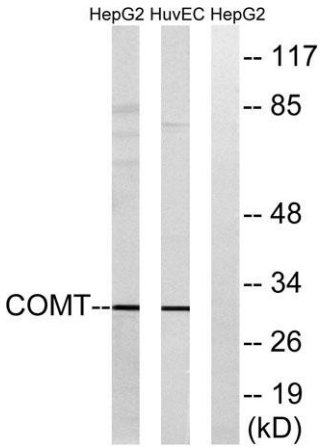
For research use only. Not intended for diagnostic use.

Product Name	COMT rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human COMT. AA range:61-110
Specificity	COMT Polyclonal Antibody detects endogenous levels of COMT protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Catechol O-methyltransferase
Gene Name	COMT
Cellular localization	[Isoform Soluble]: Cytoplasm .; [Isoform Membrane-bound]: Cell membrane ; Single-pass type II membrane protein ; Extracellular side .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

Concentration	1 mg/ml
Observed band	30kD
Human Gene ID	1312
Human Swiss-Prot Number	P21964
Alternative Names	COMT; Catechol O-methyltransferase

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],



Western blot analysis of lysates from HUVEC and HepG2 cells, using COMT Antibody. The lane on the right is blocked with the synthesized peptide.

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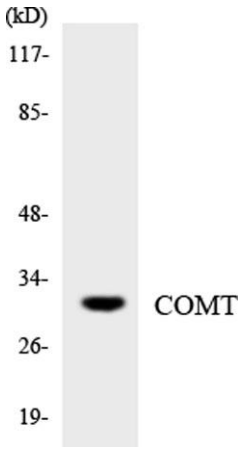

Western blot analysis of the lysates from Jurkat cells using COMT antibody.

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