

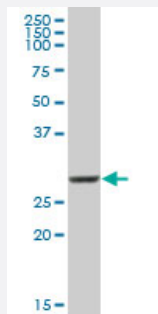
MaxPab®

# COMT MaxPab mouse polyclonal antibody (B01)

Catalog # H00001312-B01

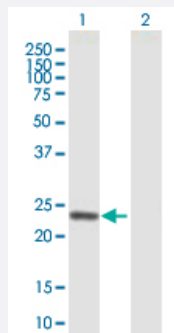
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## Applications



### Western Blot (Tissue lysate)

COMT MaxPab polyclonal antibody. Western Blot analysis of COMT expression in human placenta.



### Western Blot (Transfected lysate)

Western Blot analysis of COMT expression in transfected 293T cell line ([H00001312-T01](#)) by COMT MaxPab polyclonal antibody.

Lane 1: COMT transfected lysate(24.31 KDa).

Lane 2: Non-transfected lysate.

## Specification

|                     |                                                                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse polyclonal antibody raised against a full-length human COMT protein.                                                                                                                                                             |
| Immunogen           | COMT (NP_009294.1, 1 a.a. ~ 221 a.a) full-length human protein.                                                                                                                                                                        |
| Sequence            | MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGK/DAVIQEHQPSVLLEL<br>GAYCGYSAVRMARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDV<br>DTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSF<br>LEYREVVDGLEKAYKGPGEAGP |
| Host                | Mouse                                                                                                                                                                                                                                  |
| Reactivity          | Human                                                                                                                                                                                                                                  |

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| Quality Control Testing | Antibody reactive against mammalian transfected lysate.                                        |
| Storage Buffer          | No additive                                                                                    |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                       |
| Note                    | For IHC and IF applications, antibody purification with Protein A will be needed prior to use. |

## Applications

- Western Blot (Tissue lysate)

COMT MaxPab polyclonal antibody. Western Blot analysis of COMT expression in human placenta.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of COMT expression in transfected 293T cell line ([H00001312-T01](#)) by COMT MaxPab polyclonal antibody.

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[Protocol Download](#)

## Gene Info — COMT

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">1312</a>                                                 |
| GeneBank Accession# | <a href="#">NM_007310.1</a>                                          |
| Protein Accession#  | <a href="#">NP_009294.1</a>                                          |
| Gene Name           | COMT                                                                 |
| Gene Alias          | -                                                                    |
| Gene Description    | catechol-O-methyltransferase                                         |
| Omim ID             | <a href="#">116790</a> <a href="#">167870</a> <a href="#">181500</a> |
| Gene Ontology       | <a href="#">Hyperlink</a>                                            |

**Gene Summary**

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]

**Other Designations**

-

**Publication Reference**

- [Disturbed expression of phases I and II estrogen-metabolizing enzymes in endometrial cancer: Lower levels of CYP1B1 and increased expression of S-COMT.](#)

Hevir N, Sinkovec J, Rizner TL.

Molecular and Cellular Endocrinology 2011 Jan; 331(1):158.

Application: IHC-P, Human, Human endometrial cancer

**Pathway**

- [Betain biosynthesis](#)
- [Metabolic pathways](#)
- [Tyrosine metabolism](#)

**Disease**

- [Abnormalities](#)
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