

## Rabbit COMT Monoclonal Antibody | anti-COMT antibody

COMT Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA312685</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

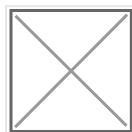
### PRODUCT SYNONYMS

COMT; Monoclonal Antibody; COMT Antibody; Catechol O methyltransferase antibody; Catechol O-methyltransferase antibody; COMT antibody; COMT\_HUMAN antibody; EC 2.1.1.6 antibody; anti-COMT antibody

### PRODUCT SPECIFICATIONS

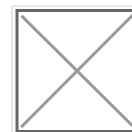
|                                                |                                                                        |
|------------------------------------------------|------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                 |
| Reactivity                                     | Human, Mouse, Rat                                                      |
| Clonality                                      | Monoclonal                                                             |
| Clone Number                                   | JG39-48                                                                |
| Purity/Purification                            | ProA affinity purified                                                 |
| Form/Format                                    | 1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide. |
| Applicable Applications for anti-COMT antibody | IHC (Immunohistochemistry), WB (Western Blot)                          |
| Antibody Type                                  | Recombinant Antibody                                                   |
| Immunogen                                      | Recombinant protein of C-terminal human COMT.                          |
| Conjugation                                    | Unconjugated                                                           |
| Preparation and Storage                        | Store at -20 degree C.                                                 |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-COMT antibody. Counter stained with hematoxylin.



#### WB (Western Blot)

Western blot analysis of COMT on MCF-7 cell (1) and rat testis tissue (2) lysate using anti-COMT antibody at 1/2, 000 dilution.

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-COMT antibody | Catechol-O-methyltransferase (COMT) plays a crucial role in the regulation of central dopaminergic systems by catalyzing the inactivation of catechol-amines. It is widely distributed in most tissues in soluble and membrane-bound forms. COMT-mediated methylation metabolism of catecholamine neurotransmitters is a first-line detoxification pathway. A Val158Met polymorphism of the COMT gene affects activity of the enzyme and influences performance and efficiency of the prefrontal cortex of the brain. Sequential conversion of estradiol to methoxyestradiol by COMT, contributes to the antimitogenic effects of estradiol on vascular smooth muscle cell growth via estrogen receptor-independent mechanisms. |
| Product Categories/Family for anti-COMT antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 4502969                                      |
| NCBI GeneID                      | 1312                                         |
| NCBI Accession #                 | NP_000745.1                                  |
| NCBI GenBank Nucleotide #        | NM_000754.3                                  |
| UniProt Accession #              | P21964; Q6IB07; Q6ICE6; A8MPV9               |
| Molecular Weight                 | 30,037 Da                                    |
| NCBI Official Full Name          | catechol O-methyltransferase isoform MB-COMT |
| NCBI Official Synonym Full Names | catechol-O-methyltransferase                 |
| NCBI Official Symbol             | COMT                                         |
| NCBI Protein Information         | catechol O-methyltransferase                 |
| UniProt Protein Name             | Catechol O-methyltransferase                 |
| UniProt Gene Name                | COMT                                         |
| UniProt Entry Name               | COMT_HUMAN                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/comt-antibody-clone-jg39-48-immunohistochemistry-western-blot-elisa/312685>