

# COMT Monoclonal antibody

Catalog Number: 68181-1-Ig

## Basic Information

**Catalog Number:**

68181-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG6502

**GenBank Accession Number:**

BC000419

**GeneID (NCBI):**

1312

**UNIPROT ID:**

P21964

**Full Name:**

catechol-O-methyltransferase

**Calculated MW:**

30 kDa

**Observed MW:**

28-30 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1A1A4

**Recommended Dilutions:**

WB 1:5000-1:50000

IF-P 1:200-1:800

## Applications

**Tested Applications:**

WB, IF-P, ELISA

**Species Specificity:**

Human, pig, rat, mouse

**Positive Controls:**

**WB :** HeLa cells, HEK-293 cells, HepG2 cells, K-562 cells, pig adrenal gland tissue, human testis tissue, rat testis tissue, mouse testis tissue

**IF-P :** mouse cerebellum tissue,

## Background Information

Catechol O-methyltransferase (COMT) is an important enzyme that catalyzes O-methylation and inactivation of metabolically active catechol-containing bioactive molecules and drugs. The mammalian COMT enzyme exists in soluble form (24-26 kDa) and membrane-bound form (28-30 kDa), which are encoded by a single gene utilizing different promoters.

## Storage

**Storage:**

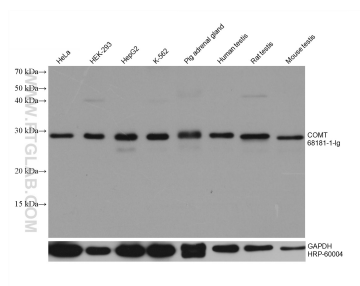
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

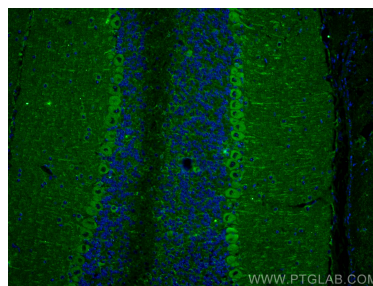
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68181-1-Ig (COMT antibody) at dilution of 1:10000 and incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using COMT antibody (68181-1-Ig, Clone: 1A1A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).