For Research Use Only

# COMT Polyclonal antibody

Catalog Number:14754-1-AP 13 Publications

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## Basic Information

Catalog Number:
14754-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

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:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF-P 1:50-1:500
IF/ICC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, monkey

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : HEK-293 cells, K-562 cells, human placenta, mouse liver, rat liver

IP : K-562 cells,

IHC : human liver tissue,

IF-P : mouse cerebellum tissue,

IF/ICC : HepG2 cells,

## 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.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Adedamola Bayo-Olugbami | 32912107 | Nutr Neurosci | WB |
| Yonglong Zhou | 34725639 | Biomed Res Int | WB,IF |
| Yinrui Guo | 34045460 | Transl Psychiatry | WB |

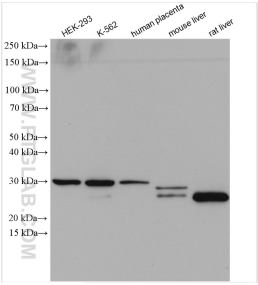
## Storage

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

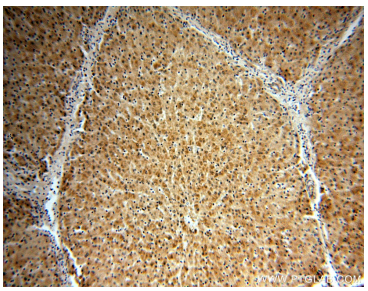


**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

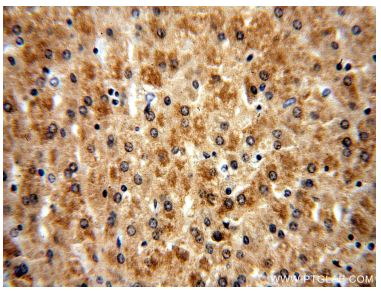
## Selected Validation Data



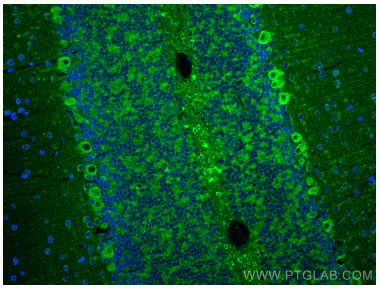

Various lysates were subjected to SDS PAGE followed by western blot with 14754-1-AP (COMT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



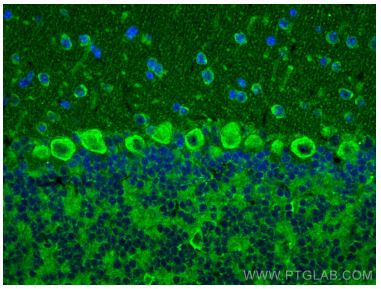
Immunohistochemical analysis of paraffin-embedded human liver using 14754-1-AP (COMT antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 14754-1-AP (COMT antibody) at dilution of 1:100 (under 40x lens).




Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using COMT antibody (14754-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

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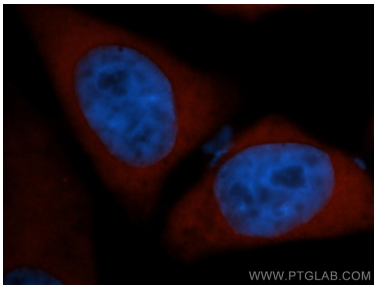
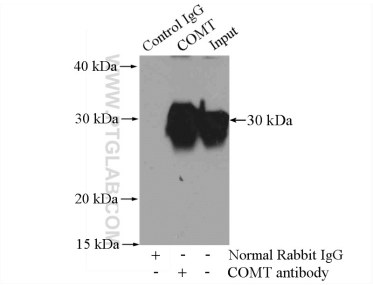



Immunofluorescent analysis of HepG2 cells, using COMT antibody 14754-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).




IP result of anti-COMT (IP:14754-1-AP, 4ug; Detection:14754-1-AP 1:500) with K-562 cells lysate 1200ug.