

For Research Use Only

COMT Polyclonal antibody

Catalog Number: 14754-1-AP **11 Publications**



Basic Information

Catalog Number: 14754-1-AP	GenBank Accession Number: BC000419	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 1312	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: P21964	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: catechol-O-methyltransferase	IHC 1:20-1:200
Immunogen Catalog Number: AG6502	Calculated MW: 30 kDa	IF 1:50-1:500
	Observed MW: 28-30 kDa	

Applications

Tested Applications: FC, IF/ICC, IF-P, IHC, IP, WB, ELISA	Positive Controls: WB : HEK-293 cells, K-562 cells, human placenta, mouse liver, rat liver
Cited Applications: IF, IHC, WB	IP : K-562 cells,
Species Specificity: human, mouse, rat	IHC : human liver tissue,
Cited Species: human, mouse, rat	IF : mouse cerebellum tissue, HepG2 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

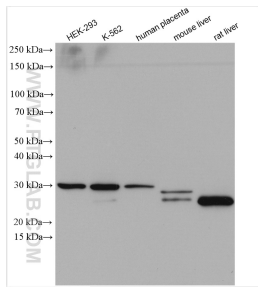
Storage

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

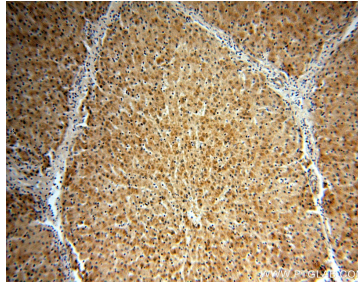
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

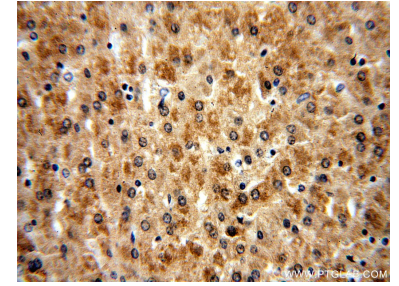
Selected Validation Data



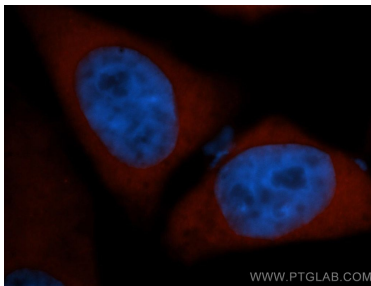
Various lysates were subjected to SDS PAGE followed by western blot with 14754-1-AP (COMT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



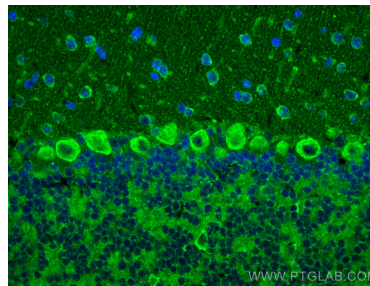
Immunohistochemical analysis of paraffin-embedded human liver using 14754-1-AP (COMT antibody) at dilution of 1:100 (under 10x lens).



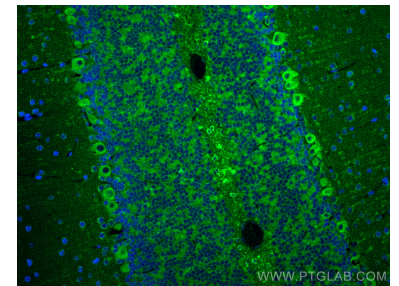
Immunohistochemical analysis of paraffin-embedded human liver using 14754-1-AP (COMT antibody) at dilution of 1:100 (under 40x lens).



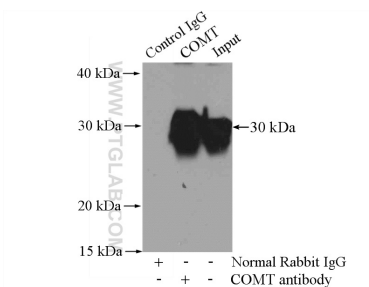
Immunofluorescent analysis of HepG2 cells, using COMT antibody 14754-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



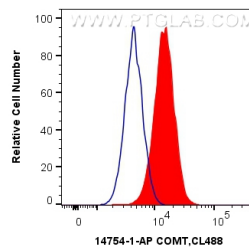
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using COMT antibody (14754-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



1×10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human COMT (14754-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).