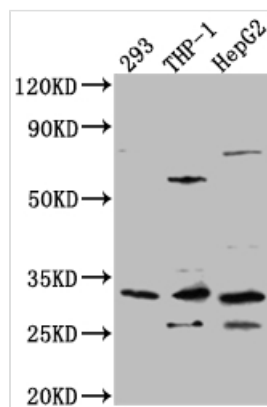




COMT Recombinant Monoclonal Antibody

Product Code	CSB-RA909081A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P21964
Immunogen	A synthesized peptide derived from human COMT
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cancer; Metabolism; Signal transduction
Gene Names	COMT
Clone No.	8E1

Image

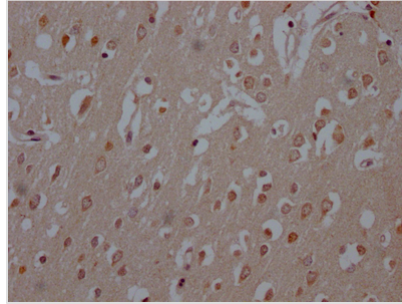


Western Blot

Positive WB detected in: 293 whole cell lysate, THP-1 whole cell lysate, HepG2 whole cell lysate
All lanes: COMT Antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 31, 25 kDa
Observed band size: 31 kDa



IHC image of CSB-RA909081A0HU diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

COMT is an S-adenosylmethionine-dependent methyltransferase enzyme that metabolizes catecholamine neurotransmitters like dopamine (DA) and epinephrine. It is necessary for cognitive and executive function in humans. COMT is involved in memory, planning, and decision-making. COMT degrades dopamine into 3-methoxytyramine, which controls dopamine levels in the prefrontal brain (PFC).

Compared with the polyclonal and monoclonal antibodies of COMT, this COMT recombinant antibody has the features of increased reproducibility and control, animal-free technology, high degree of monovalency, high batch-to-batch consistency, easier isotype conversion, etc. And it has been validated in ELISA, WB, IHC.