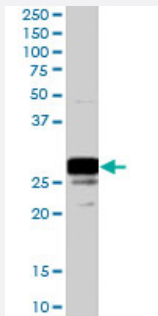


COMT polyclonal antibody

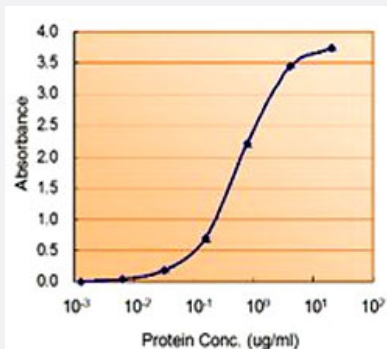
Catalog # PAB7078 Size 100 ug

Applications



Western Blot (Tissue lysate)

COMT polyclonal antibody (Cat # PAB7078) (0.03 ug/mL) staining of human testis lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Sandwich ELISA

COMT polyclonal antibody (Cat # PAB7078) (0.5 ug/mL) as the reporter with the capture rabbit antibody (2.5 ug/mL).

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of COMT.
Immunogen	A synthetic peptide corresponding to internal region of human COMT.
Sequence	C-QDIIPLKKKYDVD
Host	Goat
Theoretical MW (kDa)	30, 24.5
Reactivity	Human

Specificity	This antibody is expected to recognize both reported isoforms (NP_000745.1 and NP_009294.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:64000) Sandwich ELISA (0.5-2 ug/mL) Western Blot (0.03-0.1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

COMT polyclonal antibody (Cat # PAB7078) (0.03 ug/mL) staining of human testis lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

- Sandwich ELISA

COMT polyclonal antibody (Cat # PAB7078) (0.5 ug/mL) as the reporter with the capture rabbit antibody (2.5 ug/mL).

Gene Info — COMT

Entrez GeneID	1312
Protein Accession#	NP_000745.1;NP_009294.1
Gene Name	COMT
Gene Alias	-
Gene Description	catechol-O-methyltransferase
Omim ID	116790 167870 181500

Gene Ontology

[Hyperlink](#)

Gene Summary

Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters. [provided by RefSeq]

Other Designations

-

Publication Reference

- [Catechol-o-methyltransferase, cognition, and psychosis: Val158Met and beyond.](#)

Tunbridge EM, Harrison PJ, Weinberger DR.

Biological Psychiatry 2006 Jul; 60(2):141.

Pathway

- [Betain biosynthesis](#)
- [Metabolic pathways](#)
- [Tyrosine metabolism](#)

Disease

- [Abnormalities](#)
- [Achievement](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adolescent Psychology](#)
- [Affective Disorders](#)

- [Agoraphobia](#)
- [Alcohol Withdrawal Delirium](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Amyloid Neuropathies](#)
- [Anorexia Nervosa](#)
- [Antisocial Personality Disorder](#)
- [Anxiety Disorders](#)
- [Aptitude](#)
- [Arousal](#)
- [Arthralgia](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Attention](#)
- [Attention Deficit and Disruptive Behavior Disorders](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Avoidance Learning](#)
- [Awareness](#)
- [Basal Ganglia Diseases](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Borderline Personality Disorder](#)
- [Brain Injuries](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Brief Psychiatric Rating Scale](#)
- [Bronchial Hyperreactivity](#)
- [Bulimia](#)
- [Burnout](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cataplexy](#)
- [Catastrophic Illness](#)
- [Cell Transformation](#)
- [Cerebral Infarction](#)
- [Child Behavior Disorders](#)
- [Choice Behavior](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Cocaine-Related Disorders](#)
- [Cocarcinogenesis](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Cognitive Therapy](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Concept Formation](#)

- [Conduct Disorder](#)
- [Constipation](#)
- [Coronary Disease](#)
- [Creativeness](#)
- [Crohn Disease](#)
- [Cryptorchidism](#)
- [Cues](#)
- [Decision Making](#)
- [Dementia](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diarrhea](#)
- [DiGeorge syndrome](#)
- [Discrimination \(Psychology\)](#)
- [Disease Models](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Disorders of Excessive Somnolence](#)
- [DNA Damage](#)
- [Dominance](#)
- [Dyskinesia](#)
- [Dyskinesias](#)
- [Dyslexia](#)

- [Dyspepsia](#)
- [Eating Disorders](#)
- [Edema](#)
- [Electroconvulsive Therapy](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Executive Function](#)
- [Extraversion \(Psychology\)](#)
- [Fatigue Syndrome](#)
- [Fetal Growth Retardation](#)
- [Fibroadenoma](#)
- [Fibromyalgia](#)
- [Folic Acid Deficiency](#)
- [Fractures](#)
- [Functional Laterality](#)
- [Gambling](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Genital Diseases](#)
- [Genomic Instability](#)
- [Gout](#)
- [Habituation](#)
- [Hallucinations](#)
- [Head and Neck Neoplasms](#)

- [Headache](#)
- [Helicobacter Infections](#)
- [Hepatitis C](#)
- [Heroin Dependence](#)
- [Herpes Simplex](#)
- [Hyperalgesia](#)
- [Hypercholesterolemia](#)
- [Hyperhomocysteinemia](#)
- [Hyperkinesis](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypnosis](#)
- [Hypotension](#)
- [Imagination](#)
- [Inhibition \(Psychology\)](#)
- [Intelligence Tests](#)
- [Intervertebral Disk Displacement](#)
- [Intracranial Thrombosis](#)
- [Intuition](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Language Tests](#)
- [Laryngeal Neoplasms](#)
- [Learning](#)
- [Leiomyoma](#)

- [Leiomyomatosis](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Loudness Perception](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Marijuana Abuse](#)
- [Memory](#)
- [Memory Disorders](#)
- [Mental Disorders](#)
- [Mental Processes](#)
- [Mental Recall](#)
- [Mental Retardation](#)
- [Mental Status Schedule](#)
- [Mercury Poisoning](#)
- [Mesothelioma](#)
- [Migraine Disorders](#)
- [Migraine with Aura](#)
- [Migraine without Aura](#)
- [Mood Disorders](#)
- [Motor Skills Disorders](#)
- [Mouth Neoplasms](#)
- [Movement Disorders](#)
- [Multiple Sclerosis](#)
- [Multiple System Atrophy](#)

- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Narcolepsy](#)
- [NARP](#)
- [Nausea](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Neuralgia](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obesity](#)
- [Obsessive-Compulsive Disorder](#)
- [Occupational Diseases](#)
- [Ocular Motility Disorders](#)
- [Oligospermia](#)
- [Opioid-Related Disorders](#)
- [Orientation](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pain Threshold](#)
- [Panic Disorder](#)

- [Paranoid Disorders](#)
- [Parapsychology](#)
- [Parkinson disease](#)
- [Pattern Recognition](#)
- [Personal Construct Theory](#)
- [Personality Assessment](#)
- [Personality Disorders](#)
- [Personality Inventory](#)
- [Personality Tests](#)
- [Pharyngeal Neoplasms](#)
- [Phobic Disorders](#)
- [Pleural Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Postmortem Changes](#)
- [Pregnancy Complications](#)
- [Premenstrual Syndrome](#)
- [Prenatal Exposure Delayed Effects](#)
- [Problem Solving](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Psychometrics](#)
- [Psychomotor Performance](#)
- [Psychoses](#)

- [Psychotic Disorders](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Reaction Time](#)
- [Recognition \(Psychology\)](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Restless Legs Syndrome](#)
- [Reward](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Sciatica](#)
- [Seminoma](#)
- [Sensation](#)
- [Serial Learning](#)
- [Shock](#)
- [Signal Detection](#)
- [Sleep](#)
- [Sleep Deprivation](#)
- [Sleep Disorders](#)
- [Sleep Stages](#)
- [Social Perception](#)
- [Somatoform Disorders](#)
- [Space Perception](#)

- [Speech Disorders](#)
- [Startle Reaction](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Stress Disorders](#)
- [Substance Withdrawal Syndrome](#)
- [Substance-Related Disorders](#)
- [Task Performance and Analysis](#)
- [Temporomandibular Joint Disorders](#)
- [Testicular Neoplasms](#)
- [Thinking](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tourette Syndrome](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Venous Thrombosis](#)
- [Verbal Learning](#)
- [Visual Perception](#)
- [Vitamin B 12 Deficiency](#)
- [Vitiligo](#)
- [Vomiting](#)
- [Wakefulness](#)
- [Wechsler Scales](#)

- [Weight Gain](#)
- [Weight Loss](#)
- [Werner syndrome](#)
- [Wounds and Injuries](#)