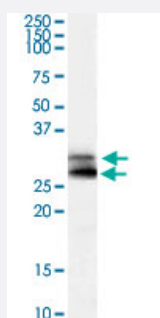


COMT polyclonal antibody

Catalog # PAB6722 Size 100 ug

Applications



Western Blot (Tissue lysate)

COMT polyclonal antibody (Cat # PAB6722) (1 ug/mL) staining of human testis lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of COMT.
Immunogen	A synthetic peptide corresponding to human COMT.
Sequence	GDTKEQRILNHVLQC
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
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:4000) Western Blot (1-3 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 # PAB6722) (1 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

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](#)
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- [Cognition Disorders](#)
- [Cognitive Therapy](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Concept Formation](#)
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- [Constipation](#)
- [Coronary Disease](#)
- [Creativeness](#)

- [Crohn Disease](#)
- [Cryptorchidism](#)
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- [Depression](#)
- [Depressive Disorder](#)
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- [Diabetic Nephropathies](#)
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- [DiGeorge syndrome](#)
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- [Mental Processes](#)
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- [NARP](#)

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- [Paranoid Disorders](#)
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- [Personal Construct Theory](#)

- [Personality Assessment](#)
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- [Prostatic Neoplasms](#)
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- [Sleep Stages](#)
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- [Stomach Neoplasms](#)
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- [Stress Disorders](#)
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- [Tourette Syndrome](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Venous Thrombosis](#)
- [Verbal Learning](#)
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