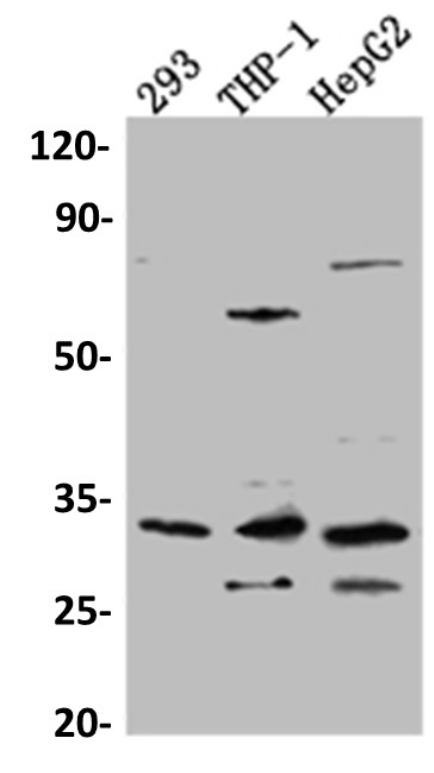
RecomAb™

COMT recombinant monoclonal antibody, clone 8E1

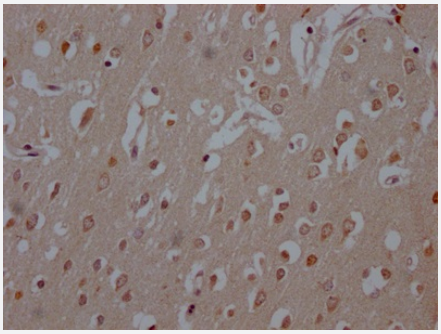
Catalog # RAB07474 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of 293 whole cell lysate, THP-1 whole cell lysate, HepG2 whole cell lysate with COMT recombinant monoclonal antibody, clone 8E1 (Cat # RAB07474).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using COMT recombinant monoclonal antibody, clone 8E1 (Cat # RAB07474) 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°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human COMT.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human COMT.
Theoretical MW (kDa)	Calculated MW: 31, 2
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human brain tissue using COMT recombinant monoclonal antibody, clone 8E1 (Cat # RAB07474) 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°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — COMT

Entrez GeneID	1312
Protein Accession#	P21964
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. T his O-methylation results in one of the major degradative pathways of the catecholamine transmitt ers. 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 disea se. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound for m (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Se veral transcript variants are formed through the use of alternative translation initiation sites and pr omoters. [provided by RefSeq
Other Designations	-

Pathway

- Betalain 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