DNAxPAb | Hard-to-Find Antibody

SHMT1 DNAxPab

Catalog # H00006470-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human SHMT1 DNA using DNAx™ Immune te chnology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MTMPVNGAHKDADLWSSHDKMLAQPLKDSDVEVYNIIKKESNRQRVGLELIASENFASRAVLEAL GSCLNNKYSEGYPGQRYYGGTEFIDELETLCQKRALQAYKLDPQCWGVNVQPYSGSPANFAVYT ALVEPHGRIMGLDLPDGGHLTHGFMTDKKKISATSIFFESMPYKVNPDTGYINYDQLEENARLFHP KLIIAGTSCYSRNLEYARLRKIADENGAYLMADMAHISGLVAAGVVPSPFEHCHVVTTTTHKTLRGC RAGMIFYRKGVKSVDPKTGKEILYNLESLINSAVFPGLQGGPHNHAIAGVAVALKQAMTLEFKVYQ HQVVANCRALSEALTELGYKIVTGGSDNHLILVDLRSKGTDGGRAEKVLEACSIACNKNTCPGDR SALRPSGLRLGTPALTSRGLLEKDFQKVAHFIHRGIELTLQIQSDTGVRATLKEFKERLAGDKYQAA VQALREEVESFASLFPLPGLPDF
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

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- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — SHMT1

Entrez GeneID	6470
GeneBank Accession#	NM_004169.3
Protein Accession#	NP_004160.3
Gene Name	SHMT1
Gene Alias	CSHMT, MGC15229, MGC24556, SHMT
Gene Description	serine hydroxymethyltransferase 1 (soluble)
Omim ID	182144
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the cellular form of serine hydroxymethyltransferase, a pyridoxal phosphate-co ntaining enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one carbon units for synthesis of met hionine, thymidylate, and purines in the cytoplasm. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative splicing of this gene results in 2 transcript varian ts encoding 2 different isoforms. Additional transcript variants have been described, but their biol ogical validity has not been determined. [provided by RefSeq
Other Designations	14 kDa protein|cytoplasmic serine hydroxymethyltransferase

Pathway

- Cyanoamino acid metabolism
- Glycine
- Metabolic pathways
- Methane metabolism
- One carbon pool by folate

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Disease

- Adenocarcinoma
- Adenoma
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Autistic Disorder
- Bone Neoplasms
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Disease Models
- Ductus Arteriosus
- Epilepsy
- Esophageal Neoplasms
- Folic Acid Deficiency
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Heart Defects

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- Hematologic Diseases
- Hyperhomocysteinemia
- Hypoplastic Left Heart Syndrome
- Infant
- Kidney Diseases
- Leukemia
- Lung Neoplasms
- Lymphoma
- Mental Disorders
- Microsatellite Instability
- Migraine Disorders
- Migraine with Aura
- Neoplasms
- Neural Tube Defects
- Osteosarcoma
- Ovarian cancer
- Ovarian Neoplasms
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Schizophrenia
- Spinal Dysraphism
- Startle Reaction
- Stomach Neoplasms

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- Stroke

- Urinary Bladder Neoplasms
- Vitamin B 12 Deficiency
- Werner syndrome

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