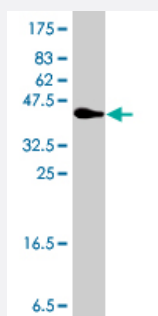


GCH1 polyclonal antibody (A01)

Catalog # H00002643-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (35.9 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant GCH1.
Immunogen	GCH1 (NP_000152, 84 a.a. ~ 172 a.a) partial recombinant protein with GST tag.
Sequence	ENPQRQGLLKTPWRAASAMQFFTKGYQETISDVLNDAIFDEHDDEMIVKIDMFMSMCEHHLVPPF VGKVHIGYLPNKQVLGLSKLARIV
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.9 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — GCH1

Entrez GeneID [2643](#)

GeneBank Accession# [NM_000161](#)

Protein Accession# [NP_000152](#)

Gene Name GCH1

Gene Alias DYT14, DYT5, GCH, GTP-CH-1, GTPCH1

Gene Description GTP cyclohydrolase 1

Omim ID [128230 233910 600225](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the GTP cyclohydrolase family. The encoded protein is the first and rate-limiting enzyme in tetrahydrobiopterin (BH4) biosynthesis, catalyzing the conversion of GTP into 7,8-dihydroneopterin triphosphate. BH4 is an essential cofactor required by aromatic amino acid hydroxylases as well as nitric oxide synthases. Mutations in this gene are associated with malignant hyperphenylalaninemia and dopa-responsive dystonia. Several alternatively spliced transcript variants encoding different isoforms have been described; however, not all variants give rise to a functional enzyme. [provided by RefSeq]

Other Designations guanosine 5'-triphosphate cyclohydrolase I

Pathway

- [Folate biosynthesis](#)
- [Metabolic pathways](#)

Disease

- [Acute Disease](#)

- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Disorders](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Dystonia](#)
- [Dystonic Disorders](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Labor Pain](#)
- [Low Back Pain](#)
- [Mental Retardation](#)
- [Neoplasms](#)
- [Pain](#)
- [Pain Threshold](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Sciatica](#)