

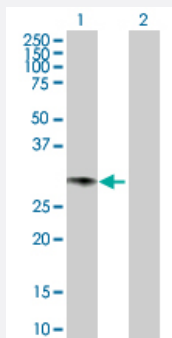
MaxPab®

GCH1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00002643-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of GCH1 expression in transfected 293T cell line ([H00002643-T01](#)) by GCH1 MaxPab polyclonal antibody.

Lane 1: GCH1 transfected lysate(27.90 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human GCH1 protein.

Immunogen

GCH1 (NP_000152.1, 1 a.a. ~ 250 a.a) full-length human protein.

Sequence

MEKGPVRAPAEKPRGARCSTNGFPERDPPRPGSPRPAEKPPRPEAKSAQPADGWKGERPRSE
EDNELNLPNLAAAYSSILSSLGENPQRQGLLTPWRAASAMQFFTKGYQETISDVLNDAIFDEDHD
EMVVKDIDMFMSMCEHHLVPFVGKVHIGYLPNKQVLGLSKLARVEIYSRRLQVQERLTKQIAVAITE
ALRPAGVGVVVEATHMCMVMRGVQKMNSKTVTSTMLGVFREDPKTREEFLTLIRS

Host

Rabbit

Reactivity

Human

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.

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[Protocol Download](#)

Gene Info — GCH1

Entrez GeneID [2643](#)

GeneBank Accession# [NM_000161.2](#)

Protein Accession# [NP_000152.1](#)

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](#)