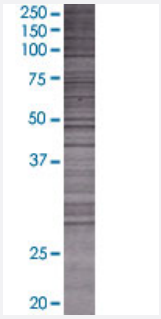
GCH1 293T Cell Transient Overexpression Lysate(Denatured)

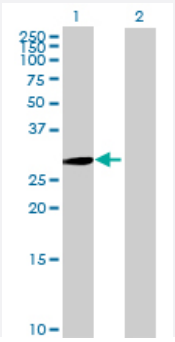
Catalog # H00002643-T01 Size 100 uL

Applications



SDS-PAGE Gel

GCH1 transfected lysate.



Western Blot

Lane 1: GCH1 transfected lysate (27.61 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-GCH1 full-length
Host	Human
Theoretical MW (kDa)	27.61
Quality Control Testing	Transient overexpression cell lysate was tested with Anti-GCH1 antibody (H00002643-B01) by Western Blots. SDS-PAGE Gel GCH1 transfected lysate. Western Blot Lane 1: GCH1 transfected lysate (27.61 KDa) Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

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