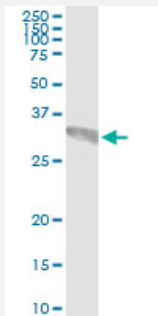


GCH1 (Human) IP-WB Antibody Pair

Catalog # H00002643-PW1

Size 1 Set

Applications



Immunoprecipitation of GCH1 transfected lysate using mouse monoclonal anti-GCH1 and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with rabbit polyclonal anti-GCH1.

Specification

Product Description	This IP-WB antibody pair set comes with one antibody for immunoprecipitation and another to detect the precipitated protein in western blot.
Reactivity	Human
Quality Control Testing	Immunoprecipitation-Western Blot (IP-WB) Immunoprecipitation of GCH1 transfected lysate using mouse monoclonal anti-GCH1 and Protein A Magnetic Bead (U0007), and immunoblotted with rabbit polyclonal anti-GCH1.
Supplied Product	Antibody pair set content: 1. Antibody pair for IP: mouse monoclonal anti-GCH1 (300 ug) 2. Antibody pair for WB: rabbit polyclonal anti-GCH1 (50 ul)
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- Immunoprecipitation-Western Blot

[Protocol Download](#)

Gene Info — GCH1

Entrez GeneID [2643](#)

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](#)