

Product datasheet for **TA342674**

GTP cyclohydrolase 1 (GCH1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-GCH1 antibody is: synthetic peptide directed towards the N-terminal region of Human GCH1. Synthetic peptide located within the following region: PPRPEAKSAQPADGWKGERPRSEEDNELNLPNLAAAYSSILSSLGENPQR
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27 kDa
Gene Name:	GTP cyclohydrolase 1
Database Link:	NP_000152 Entrez Gene 2643 Human P30793



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Background: 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.

Synonyms: DYT5; DYT5a; DYT14; GCH; GTP-CH-1; GTPCH1; HPABH4B

Note: Immunogen Sequence Homology: Dog: 100%; Human: 100%; Bovine: 100%; Rabbit: 100%; Rat: 86%

Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:

