

## Rabbit anti-Human GCH1 Polyclonal Antibody | anti-GCH1 antibody

GCH1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                       |
|-----------|--------|------------|------------------------------------|
| AAA305571 | Rabbit | Human      | Immunohistochemistry, Western Blot |

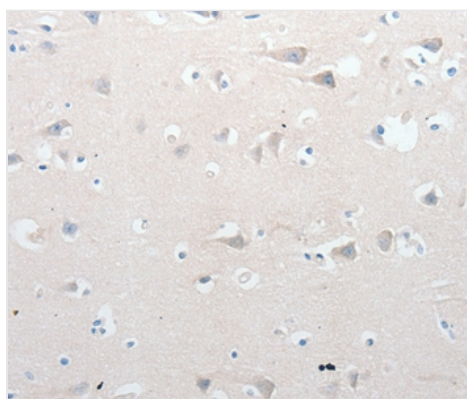
### PRODUCT SYNONYMS

GCH1; Polyclonal Antibody; GCH1 Antibody; GCH; DYT5; DYT14; DYT5a; GTPCH1; HPABH4B; GTP-CH-1; anti-GCH1 antibody

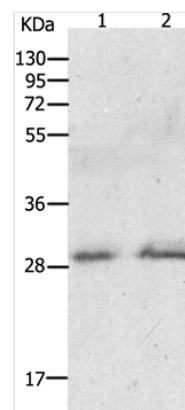
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                   |
| Reactivity                                     | Human                                                                                                    |
| Clonality                                      | Polyclonal                                                                                               |
| Specificity                                    | The antibody detects endogenous levels of total GCH1 protein.                                            |
| Purity/Purification                            | Antigen affinity purification.                                                                           |
| Form/Format                                    | Rabbit IgG in pH7.3 PBS, 0.05% NaN <sub>3</sub> , 50% Glycerol.                                          |
| Concentration                                  | 0.5 mg/ml (varies by lot)                                                                                |
| Sequence Length                                | 250                                                                                                      |
| Applicable Applications for anti-GCH1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                            |
| Immunogen Type                                 | Peptide                                                                                                  |
| Immunogen Description                          | Synthetic peptide corresponding to a region derived from internal residues of human GTP cyclohydrolase 1 |
| Target Name                                    | GCH1                                                                                                     |
| Preparation and Storage                        | Store at -20 degree C                                                                                    |

### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded Human brain tissue using at dilution 1/15.


**Application Data**

Gel: 12%SDS-PAGE Lysates (from left to right): Human fetal liver tissue and hela cell Amount of lysate: 60ug per lane Primary antibody: 1/200 dilution Secondary antibody dilution: 1/8000 Exposure time: 15 minutes

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GCH1 antibody | 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. |
| Product Categories/Family for anti-GCH1 antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 4503949                                            |
| NCBI GeneID                      | 2643                                               |
| NCBI Accession #                 | NP_000152.1                                        |
| NCBI GenBank Nucleotide #        | NM_000161.2                                        |
| UniProt Accession #              | P30793; Q6FHY7; Q9Y4I8                             |
| Molecular Weight                 | 25,775 Da                                          |
| NCBI Official Full Name          | GTP cyclohydrolase 1 isoform 1                     |
| NCBI Official Synonym Full Names | GTP cyclohydrolase 1                               |
| NCBI Official Symbol             | GCH1                                               |
| NCBI Official Synonym Symbols    | GCH; DYT5; DYT14; DYT5a; GTPCH1; HPABH4B; GTP-CH-1 |
| NCBI Protein Information         | GTP cyclohydrolase 1                               |
| UniProt Protein Name             | GTP cyclohydrolase 1                               |
| UniProt Gene Name                | GCH1                                               |
| UniProt Synonym Gene Names       | DYT5; GCH; GTP-CH-I                                |
| UniProt Entry Name               | GCH1_HUMAN                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gch1-antibody-immunohistochemistry-western-blot-elisa/305571>