

## GCH1 RABBIT PAB

**Cat.#:** S219841

**Product Name:** Anti-GCH1 Rabbit Polyclonal Antibody

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

**UNIPROT ID:** P30793 (Gene Accession - NP\_001019242 )

**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.

**Immunogen:** Synthetic peptide of human GCH1

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 20-May;WB: 500-2000;ELISA: 1000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

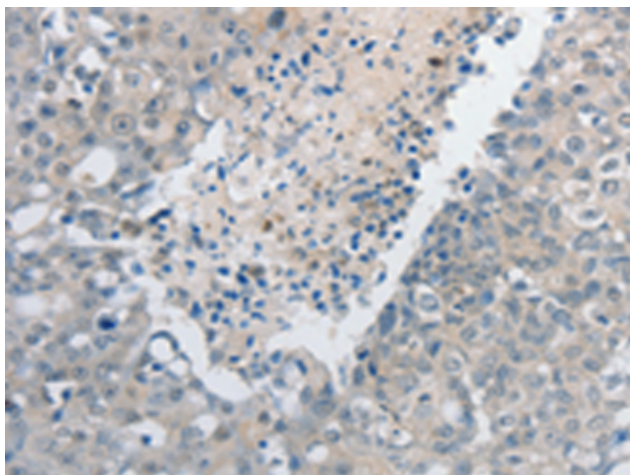
**Purification:** Antigen affinity purification

**Species Reactivity:** Human

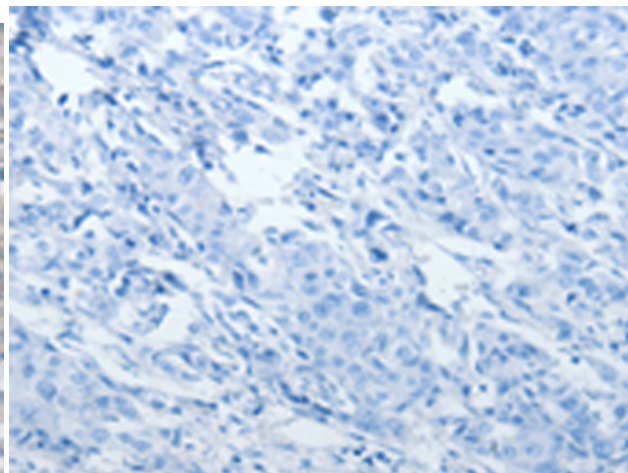
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Metabolism, Signal Transduction, Cell Biology, Neuroscience

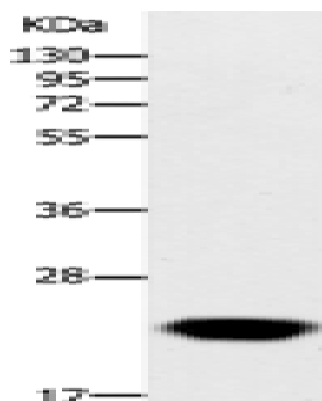
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human breast cancer tissue using 219841(GCH1 Antibody) at a dilution of 1/15(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human breast cancer tissue is first treated with the synthetic peptide and then with 219841(Anti-GCH1 Antibody) at dilution 1/15.



Gel: 12%SDS-PAGE, Lysate: 60 µg;  
Lane: Human fetal liver tissue;  
Primary antibody: 219841(GCH1 Antibody) at dilution 1/200;  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution;  
Exposure time: 15 seconds