



Anti-GTP cyclohydrolase 1 Antibody

Alternative Names: GCH1, GCH, DYT5, DYT14, DYT5a, GTPCH1, HPABH4B, GTP-CH-1, GTP cyclohydrolase-1, Guanosine triphosphate cyclohydrolase-1

Catalogue Number: AB19-10111-100ug

Size: 100 µg

Background Information

GTP cyclohydrolase 1 (GCH1) is an essential enzyme for dopamine production in nigrostriatal cells. It is required for BH4 synthesis (6(R)-L-erythro-5,6,7,8-tetrahydrobiopterin), a cofactor required for the production of aromatic amino acids, neurotransmitters, and nitric oxide. Through this requirement, GCH1 is implicated in neurological disorders such as DOPA-responsive dystonia and Parkinson's disease. GCH1 is also relevant in pain sensitivity, cardiovascular risk, some cancers and chronic diseases such as hypertension, diabetes and atherosclerosis.

Product Information

Antibody Type: Polyclonal **Host:** Rabbit

Isotype: IgG **Species Reactivity:** Human

Immunogen: A synthetic peptide from human GCH1

Format: 100 µg in 100 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.

Storage Conditions: Store at -20°C. Avoid freeze / thaw cycles.

Applications: WB IHC
WB 1:200-1000. IHC 1:5-20.

Additional Information

Subcellular location: Cytoplasm, Nucleus **MW:** 28kDa (Intended as a general guide and does not allow for all isoforms and species variations)

Gene ID 2643 **Uniprot ID:** P30793