



## 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:** AB19-10111-50ug

**Size:** 50 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

<b>Antibody Type:</b>	Polyclonal	<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	A synthetic peptide from human GCH1		
<b>Format:</b>	50 µg in 50 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
<b>Storage Conditions:</b>	Store at -20°C. Avoid freeze / thaw cycles.		
<b>Applications:</b>	WB IHC WB 1:200-1000. IHC 1:5-20.		

### Additional Information

<b>Subcellular location:</b>	Cytoplasm, Nucleus	<b>MW:</b>	28kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	2643	<b>Uniprot ID:</b>	P30793