Mouse anti-Human GCH1 Monoclonal Antibody | anti-GCH1 antibody

GCH1 (GTP Cyclohydrolase 1, GTP Cyclohydrolase I, GTP-CH-I, DYT5, GCH) (Biotin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA24814	**Mouse**	**Human**	**ELISA, Immunohistochemistry, Immunoprecipitation, Western Blot**

PRODUCT SYNONYMS

GCH1; Monoclonal Antibody; GCH1 (GTP Cyclohydrolase 1; GTP Cyclohydrolase I; GTP-CH-I; DYT5; GCH) (Biotin); anti-GCH1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4A12
Specificity	Recognizes human GCH1.
Purity/Purification	Purified
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Applicable Applications for anti-GCH1 antibody	ELISA, IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Application Notes	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant protein corresponding to aa84-172 from human GCH1 (NP_000152) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ENPQRQGLLKTPWRAASAMQFFTKGYQETISDVLNDAIFDEDHDEMVIVKDIDMFSMCEHHLVPFVGKVHIGYLPNKQVLGLSKLARIV
Conjugate	Biotin
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES

Application Data
Detection limit for recombinant GST tagged GCH1 is ~0.3ng/ml as a capture antibody.

IP (Immunoprecipitation)
Immunoprecipitation of GCH1 transfected lysate using 127227and Protein A Magnetic Bead and immunoblotted with GCH1 rabbit polyclonal antibody.

IHC (Immunohistochemistry)
Immunoperoxidase on formalin-fixed paraffin-embedded human lymph node using 127227 (3ug/ml).

WB (Western Blot)
Western Blot analysis of GCH1 expression in transfected 293T cell line using 127227. Lane 1: GCH1 transfected lysate (27.9kD). Lane 2: Non-transfected lysate.

WB (Western Blot)
Western Blot analysis of GCH1 using 127227 expression in IMR-32.

WB (Western Blot)
Western Blot detection against Immunogen (35.53kD).

ADDITIONAL INFORMATION

Product Categories/Family for anti-GCH1 antibody	Antibodies; Enzymes
References	1. Vascular Dysfunction in Streptozotocin-Induced Experimental Diabetes Strictly Depends on Insulin Deficiency. Oelze M, Knorr M, Schuhmacher S, Heeren T, Otto C, Schulz E, Reifenberg K, Wenzel P, Munzel T, Daiber A.J Vasc Res. 2011 Jan 27;48(4):275-284.

NCBI AND UNIPROT INFORMATION

NCBI GI #	399536
NCBI GeneID	2643
NCBI Accession #	NP_000152
NCBI GenBank Nucleotide #	NM_000161
UniProt Accession #	P30793
Molecular Weight	28kDa
NCBI Official Full Name	GTP cyclohydrolase 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
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/monoclonal/gch1-antibody-clone-4a12-immunohistochemistry-immunoprecipitation-western-blot-elisa/24814