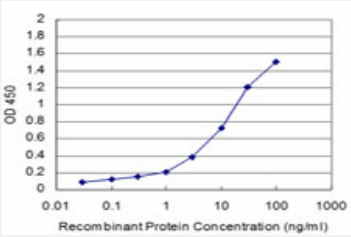
GCSH monoclonal antibody (M01), clone 3D8-A12

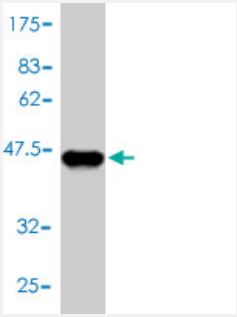
Catalog # H00002653-M01 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GCSH is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (44.77 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant GCSH.
Immunogen	GCSH (AAH00790.1, 1 a.a. ~ 173 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTEKHEWVTTEN GIGTVGISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAEN PGLVNKSCYEDGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (80); Rat (85)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (44.77 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged GCSH is approximately 0.1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — GCSH

Entrez GeneID	2653
GeneBank Accession#	BC000790
Protein Accession#	AAH00790.1
Gene Name	GCSH
Gene Alias	GCE, NKH
Gene Description	glycine cleavage system protein H (aminomethyl carrier)
Omim ID	238330 605899
Gene Ontology	Hyperlink

Gene Summary	The enzyme system for cleavage of glycine (glycine cleavage system; EC 2.1.2.10), which is confined to the mitochondria, is composed of 4 protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase; MIM 238300), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme; MIM 238310), and L protein (a lipoamide dehydrogenase; MIM 238331). Glycine encephalopathy (GCE; MIM 605899), also called nonketotic hyperglycinemia (NKH), may be due to a defect in any one of these enzymes.[supplied by OMIM
Other Designations	lipoic acid-containing protein|mitochondrial glycine cleavage system H-protein|part of mitochondrial matrix glycine cleavage enzyme complex of 4 proteins: H-, L-, P-, and T-proteins

Disease

- Genetic Predisposition to Disease
- Hyperglycinemia
- Kidney Failure